

ADDITIONAL TYPE SPECIMENS OF FOSSIL INVERTEBRATA IN THE COLLECTIONS OF THE NATURAL HISTORY MUSEUM OF LOS ANGELES COUNTY¹

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ABSTRACT: This catalogue lists additional type and figured specimens of invertebrate fossils (including paleoentomology) in the collections of the Natural History Museum of Los Angeles County. Each entry includes name, author and date of original publication, bibliographic reference, type category and museum type number, age, formation (if known), and locality; some entries are annotated. The list is arranged phylogenetically from phyla to orders and alphabetically below that level. Species have been listed in their original genera and have been placed in what is currently considered to be the correct family. An index to species is provided.

¹REVIEW COMMITTEE FOR THIS CONTRIBUTION

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INTRODUCTION

This is the second list of type and figured specimens of invertebrate fossils in the Natural History Museum of Los Angeles County and is published in compliance with article 72D of the International Code of Zoological Nomenclature. The first list (Wilson and Bing, 1970) excluded paleoentomological fossils while the present list includes both insects and subsequent additions from other phyla. These specimens are primarily from the collections of: W. Dwight Pierce; Georg Statz; and the California Institute of Technology, Division of Geological and Planetary Sciences. The first two collections are the property of the museum and the third has been deposited on permanent loan.

The 673 entries in this list are spread among eight phyla and range in age from Devonian through Pleistocene. There are 339 holotypes, 560 syntypes, 2 lectotypes, 529 paratypes, 31 paralectotypes, 2 allotypes (an entomological term for a paratype of the opposite sex of the holotype), 353 figured specimens not in the above categories, and 41 "plastotypes" (casts or copies of type specimens housed in other institutions). Fourteen holotypes, 26 syntypes, 23 paratypes, and 42 figured specimens have not been located and are listed as MISSING. Information about the whereabouts of missing specimens should be communicated to the museum.

The list is arranged phylogenetically by phylum, class, and order and alphabetically by family, genus, and species group names. Each entry includes the genus and species group names of the original author and date of publication, bibliographic reference, type category and The Natural History Museum of Los Angeles County type number, age, formation (if known), and locality. Each specimen is numbered separately with the rare exception of an indeterminable number being present on a rock face, in which case a single number is given the aggregate. Species included in new genera are marked by an asterisk (*).

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Phylum	PROTOZOA
Class	SARCODINA
Order	FORAMINIFERIDA
Family	DISCOCYCLINIDAE

Actinocyclus aster

WOODRING, 1930:152, pl. 14, figs. 3-6; pl. 16, figs. 2 and 4; pl. 17, fig. 1. Holotype 4024 (pl. 14, figs. 3 and 5); 4 paratypes 4025 (pl. 14, fig. 6); 4026 (pl. 16, fig. 2); 4027 (pl. 16, fig. 4); all Eocene; W side of Canada de los Sauces, Santa Barbara County, California; 4028 (pl. 17, fig. 1); Eocene; S slope of Jalama Creek, Santa Barbara County, California.

Dioscocyclus psila

WOODRING, 1930:148, pl. 14, figs. 2, 4-6; pl. 15, figs. 1-4; pl. 17, fig. 1. 15+syntypes 4028 (pl. 17, fig. 1); 4029-4033 (pl. 14, fig. 2); 4034 and 4311 (uncounted number of syntypes; single type numbers assigned to the two lots; pl. 14, figs. 5-6); 4035 (pl. 15, fig. 1); 4036 (pl. 15, fig. 2); 4037 (pl. 15, fig. 3); 4038 (pl. 15, fig. 4); 4039-4042 (unfigured); Eocene; Canada de los Sauces, Santa Barbara County, California.

Family NUMMULITIDAE

Operculina cf. ocalana Cushman, 1921

WOODRING, 1930 as pl. 14, fig. 1.

Figured specimen 4043; Eocene; Canada de los Sauces, Santa Barbara County, California.

Phylum COLEENTERATA
Class ANTHOZOA
Order SCLERACTINIA
Family DENDROPHYLLIIDAE

Dendrophyllia hannibali

NOMLAND, 1916:67.

3 paratypes 4252-4254 (all unfigured); Oligocene, Lincoln Formation; 1½ mi above Porter, Grays Harbor County, Washington.

Phylum PLATYHELMINTHES
Class TURBELLARIA

**Gibronea miocenae*

PIERCE, 1964:82, fig. 1-4.

Holotype 2494; Miocene, Barstow Formation; southern Calico Mountains, San Bernardino County, California.

Phylum ASCHELMINTHES
Class ROTIFERA

**Pararotifera enigmatica*

PIERCE, 1964:85, figs. 6-7.

Holotype 2496; Miocene, Barstow Formation; southern Calico Mountains, San Bernardino County, California.

Class NEMATODA
Family APHELENCHIDAE

**Mioaphelenchus gamagei*

PIERCE, 1964:84, fig. 5.

Holotype 2495; Miocene, Barstow Formation; southern Calico Mountains San Bernardino County, California.

Phylum BRACHIPODA
Class ARTICULATA
Order TEREBRATULIDA
Family CRANAENIDAE

**Maclarenella maculosa*

STEHLI, 1955:869, pl. 87, fig. 1-2, 4-5, 7.

Paratype 4044; Devonian, Waterways Formation; 4-6 mi N of McMurray, Athabaska River, Alberta, Canada.

Family DIELASMATIDAE

Dielasma sp.

STEHLI, 1955 as pl. 87, figs. 14-19.

4 figured specimens 4255 (fig. 14-15 and 18); 4256 (fig. 16); 4257 (fig. 17); 4258 (fig. 19); Permian; Getaway Member, Cherry Canyon Formation; Guadalupe Mountains, Texas.

Dielasma elongatum (Schlotheim, 1816)

STEHLI, 1956 as pl. 40, fig. B4.

Figured specimen 4045; Permian; Zechstein, near Possneck, Thuringa, Germany.

Fletcherina amygdala (Dana, 1847)

STEHLI, 1961a as pl. 61, fig. 10.

Figured specimen 4046; Permian, Upper Marine Series; Gerringong, New South Wales, Australia.

Fletcherina inversa (de Koninck, 1877)

STEHLI, 1961a as pl. 61, figs. 8-9, 12-13, 16 and 26.

2 figured specimens 4047 (fig. 13); 4312 (figs., 8-9, 12, 16 and 26); Permian, Upper Marine Series; Wyro, near Ulladulla, New South Wales, Australia.

**Lowenstamia texana*

STEHLI, 1961b:461, pl. 62, group d, figs. 1-10.

9 syntypes 4048 (figs. 4-5, 8-10); 4049 (figs. 1-3, 6-7); 4050-4056 (unfigured); Permian, Putnam Formation; San Angelo junction, 4 mi SE of Coleman, Coleman County, Texas.

Family HETERELASMINIDAE

Beecheria sp.

STEHLI, 1956, pl. 40, fig. A6.

Figured specimen 4057; Pennsylvanian; Grapevine Canyon, Otero County, New Mexico.

Gilledia cymbaeformis (Morris, 1845)

STEHLI, 1961a as pl. 61, figs. 1-2, 5-6.

Figured specimen 4058; Permian, Upper Marine Series; Wyro, near Ulladulla, New South Wales, Australia.

Family NOTOTHYRIDIDAE

Timorina broili

STEHLI, 1961b:465, pl. 62, group E, figs. 1-11.

Holotype 4060 (fig. 10); 5 paratypes 4061 (figs. 4-5); 4062 (fig. 1); 4063 (fig. 2); 4064 (figs. 3 and 6); 4065 (figs. 7-8); Permian; Basleo, Timor, Dutch East Indies.

NOTE: I am unable to match figs. 9 and 11 with the specimens.

Phylum	MOLLUSCA
Class	PELECYPODA
Order	CONOCARDIDOIDA
Family	CONOCARDIIDAE

Conocardium langenheimi

WILSON, 1970:1, fig. 8.

Figured paratype 2443; Lower Permian, McCloud Limestone; Shasta County, California.

Order	HIPPURITOIDA
Family	CAPRINIDAE

**Coralliochama orcutti*

WHITE, 1885:10.

7 plastosyntypes 4302-4308; Cretaceous, Rosario Formation; north side of Punta Banda, "shore of Todos Santos Bay," Baja California, Mexico.

Order NUCULOIDA
Family NUCULIDAE

Acila (Truncacila) demessa Finlay, 1927

SCHENCK, 1943 as pl. 9, figs. 1, 3 and 7.

3 figured specimens 4066 (fig. 1); 4067 (fig. 3); 4068 (fig. 7); Cretaceous, Santa Ana Mountains, Orange County, California.

Order ARCOIDA
Family ARCIDAE

Anadara (Anadara) carrizoensis

REINHART, 1943:56, pl. 5, figs. 1, 4 and 10.

Holotype 4069 (pl. 5, fig. 10); paratype 4070 (pl. 5, figs. 1 and 4); Pliocene, Imperial Formation; south slope of Carrizo Mountain, Imperial County, California.

Anadara aff. *A. (Anadara) montereyana* (Osmont, 1905)

STANTON, 1966 as pl. 5, fig. 1.

Figured specimen 4071; Miocene, Castaic Formation; bottom of small canyon tributary to Haskell Canyon, Los Angeles County, California.

Arca (Arca) santamariensis

REINHART, 1937:183, pl. 28, figs. 4-5, 7-8 and 11.

REINHART, 1943 as pl. 3, figs. 7-11.

Holotype 4072; Pliocene; Fugler Point, 7½ mi SE of Santa Maria, Santa Barbara County, California.

Arca (Arca) sisquocensis

REINHART, 1937:182, pl. 28, figs. 1-3.

REINHART, 1943 as pl. 2, fig. 8.

Holotype 4073; Pliocene; Fugler Point, 7½ mi SE of Santa Maria, Santa Barbara County, California.

Arca vancouverensis

MEEK, 1864:40.

Plastoparatype 4074; Cretaceous; Nanaimo, Vancouver Island, British Columbia, Canada.

Barbatia (Fugleria) pseudoillota

REINHART, 1937:184, pl. 28, figs. 6, 9 and 10.

REINHART, 1943 as pl. 3, figs. 4-6.

Holotype 4075; paratype 4076 (unfigured); Pliocene; Fugler Point, 7½ mi SE of Santa Maria, Santa Barbara County, California.

Family GLYCYMERIDIDAE

Glycymeris cf. *G. gigantea* (Reeve, 1843)

STANTON, 1966 as pl. 5, figs. 2-3.

2 figured specimens 4077 (fig. 2); 4259 (fig. 3); Miocene, Castaic Formation; tributary to Elderberry Canyon, Los Angeles County, California.

Glycymeris meganosensis Clark and Woodford, 1927

SMITH, 1945 as fig. 6.

Figured specimen 4078; Eocene, Meganos Formation; Mount Diablo Quadrangle, Contra Costa County, California.

Glycymeris veatchii (Gabb, 1864)

SMITH, 1945 as figs. 1 and 9.

2 figured specimens 4079 (fig. 1); Cretaceous; Tuscan Springs, Tehama County, California; 4080 (fig. 9); Cretaceous; Santa Monica Mountains, Los Angeles County, California.

Glycymeris veatchii anae

SMITH, 1945:42, figs. 3 and 7.

2 syntypes 4081 (fig. 3); 4082 (fig. 7); Cretaceous; Santa Ana Mountains, Orange County, California.

Glycymeris veatchii major (Stanton, 1896)

SMITH, 1945 as figs. 5 and 8.

2 figured specimens 4083 (fig. 5); Eocene, "Martinez" Formation; Simi Valley, Ventura County, California; 4084 (fig. 8); Cretaceous, Garzas Formation; Garzas Creek, Merced County, California.

Glycymeris veatchii reddingensis

SMITH, 1945:42, figs. 2 and 4.

2 syntypes 4085 (fig. 2); Cretaceous; near Redding, Shasta County, California.

Family LIMOPSIDAE

Trinacria cor

POPENOE, 1937:380.

Plastoholotype 4087; Plastoparatype 4088; Cretaceous, Williams Formation; Santa Ana Mountains, Orange County, California.

Order MYTILOIDA
Family MYTILIDAE*Brachidontes bifurcatus*

POPENOE, 1937:383.

Plastoholotype 4089; Cretaceous, Williams Formation; Santa Ana Mountains, Orange County, California.

Inoperna bellarugosa

POPENOE, 1937:382.

Plastoholotype 4090; Plastoparatype 4091; Cretaceous, Ladd Formation; Santa Ana Mountains, Orange County, California.

Order PTERIOIDA
Family ANOMIIDAE*Pododesmus* cf. *P. macroschisma* (Deshayes, 1839)

STANTON, 1966 as pl. 5 fig. 7.

Figured specimen 4092; Miocene, Castaic Formation; Small valley E of Dry Canyon Dam, Los Angeles County, California.

Family LIMIDAE

Lima (Acesta) beta

POPENOE, 1937:382.

Plastoholotype 4093; Cretaceous, Ladd Formation; Santa Ana Mountains, Orange County, California.

Family PECTINIDAE

Chlamys hodgei (Hertlein, 1925)

STANTON, 1966 as pl. 5, figs. 4-5.

Figured specimen 4094; Miocene, Castaic Formation; Humphreys Quadrangle, Los Angeles County, California.

Hinnites multirugosus var. *crassiplicatus* (Gale, 1928)

STANTON, 1966 as pl. 5, fig. 6.

Figured specimen 4095; Miocene, Castaic Formation; Humphreys Quadrangle, Los Angeles County, California.

Pecten (Amusium) condoni

HERTLEIN, 1925b:41.

Paratype 4260 (unfigured); Miocene, Montesano Formation; at dam #35, W Wishkah River, Grays Harbor County, Washington.

Pecten (Propeamusium) cowperi

WARING, 1917:63.

Paratype 4096 (unfigured); Cretaceous, Chico Formation; Bells Canyon, Ventura County, California.

Pecten (Plagiectenium) cristobalensis

HERTLEIN, 1925a:19.

Paratype 4097 (unfigured); Pliocene, Salada Formation; 3 mi SE of Turtle Bay, Baja California, Mexico.

Pecten (Plagiectenium) hakei

HERTLEIN, 1925a:18.

Paratype 4098 (unfigured); Pliocene, Salada Formation; 5 mi N of Abrejos Point, Ballenas Bay Quadrangle, Baja California, Mexico.

Pecten (Camptonectes) harfordus

DAVIS, 1913:456.

Paratype 4099 (unfigured); "Jurassic"; 6 mi N of Port Hartford, San Luis Obispo County, California.

Pecten (Aequipecten) percarus

HERTLEIN, 1925a:13.

Paratype 4100 (unfigured); Pliocene, Salada Formation; mouth of large arroyo NE of Elephant Mesa, Scammon's Lagoon Quadrangle, Baja California, Mexico.

Pecten stearnsii Dall, 1878

WOODRING, BRAMLETTE, and KEW, 1946 as pl. 30, figs. 9-10.

Figured specimen 4101; Pleistocene, Lomita Marl; Hilltop Quarry, San Pedro, Los Angeles County, California.

Family SPONDYLIDAE

Spondylus sp.

STANTON, 1966 as pl. 5, fig. 8.

Figured specimen 4102; Miocene, Castaic Formation; E of junction of Castaic and Fish Creeks, Los Angeles County, California.

Order VENEROIDA

Family ASTARTIDAE

Astarte concentrica Conrad, 1834

POPENOE and FINDLAY, 1933 as pl. 19, figs. 5-7.

3 figured specimens 4103 (fig. 5); 4104 (fig. 6); 4105 (fig. 7); Miocene, Yorktown Formation; Grove Wharf, James City County, Virginia.

Family CARDITIDAE

Venericardia parva Lea, 1833

POPENOE and FINDLAY, 1933 as pl. 19, figs. 1-4 and 8-9.

6 figured specimens 4106 (fig. 1); 4107 (fig. 2); 4108 (fig. 3); 4109 (fig. 4); 4110 (fig. 8); 4111 (fig. 9); Eocene; Clairborne Bluff, Monroe County, Alabama.

"Venericardia" ventricosa (Gould, 1850)

POPENOE and FINDLAY, 1933 as pl. 19, fig. 17.

Figured specimen 4112; Pleistocene; San Pedro, Los Angeles County, California.

Family CRASSATELLIDAE

Crassatella gamma

POPENOE, 1937:388.

Plastoholotype 4113; 2 plastoparatypes 4114 and 4115; Cretaceous, Ladd Formation; Santa Ana Mountains, Orange County, California.

Crassatella granti (Wiedey, 1928)

WOODRING, 1942 as pl. 13, fig. 1.

Figured specimen 4116; Miocene, Vaqueros Formation; Cajon Pass, San Bernardino County, California.

Crassinella nuculiformis

BERRY, 1940:149.

Paratype 4117; Pleistocene; W side of Gaffey Street in cut just below General St., San Pedro, Los Angeles County, California.

Eucrassatella subgibbosa (Hanna, 1926)

STANTON, 1966 as pl. 5, figs. 9-12.

4 figured specimens 4118 (fig. 9); 4119 (fig. 10); 4120 (fig. 11); 4121 (fig. 12); Miocene, Castaic Formation; Humphreys Quadrangle, Los Angeles County, California.

Family ISOCARDIIDAE

Clisocolus corrugatus

POPENOE, 1937:390.

Plastoholotype 4122; Cretaceous, Ladd Formation; Santa Ana Mountains, Orange County, California.

Isocardia delta

POPENOE, 1937:389.

Plastoholotype 4123; 2 Plastoparatypes 4124-4125; Cretaceous, Ladd Formation; Santa Ana Mountains, Orange County, California.

Family PSAMMOBIIDAE

Sanguinolaria cf. *S. nuttalli* Conrad, 1837

STANTON, 1966 as pl. 6, figs. 3-4.

Figured specimens 4126; Miocene, Castaic Formation; NE side of Castaic Canyon, Los Angeles County, California.

Family TELLINIDAE

Macoma ? sp.

STANTON, 1966 as pl. 6, figs. 6-7.

2 figured specimens 4127 (fig. 6); 4128 (fig. 7); Miocene, Castaic Formation; W bank at junction of Castaic and Elizabeth Lake Canyons, Los Angeles County, California.

Psammotreta (Florimetus) biangulata (Carpenter, 1855)

STANTON, 1966 as pl. 6, fig. 5.

Figured specimen 4129; Miocene, Castaic Formation; NE side of Castaic Canyon, Los Angeles County, California.

Family VENERIDAE

**Calva regina*

POPENOE, 1937:395.

2 plastosyntypes 4130-4131; Cretaceous, Ladd Formation; Santa Ana Mountains, Orange County, California.

Cyprimeria moorei

POPENOE, 1937:391.

4 plastosyntypes 4132-4135; Cretaceous, Ladd Formation; Santa Ana Mountains, Orange County, California.

Dosinia sp.

STANTON, 1966 as pl. 5, figs. 13-14.

2 figured specimens 4136 (fig. 13); 4137 (fig. 14); Miocene, Castaic Formation; NE side of Castaic Canyon, Los Angeles County, California.

Flaventia zeta

POPENOE, 1937:393.

Plastoholotype 4138; 2 platsoparatypes 4139-4140; Cretaceous, Ladd Formation; Santa Ana Mountains, Orange County, California.

Macrocallista stantoni

WARING, 1971:77.

Paratype 4141 (unfigured); Eocene, "Martinez" Formation; Simi Hills, Ventura County, California.

Mercenaria perlaminosa (Conrad, 1855)

WOODRING, BRAMLETTE and KEW, 1946 as pl. 31, figs. 16-17.

Figured specimen 4142; Pleistocene, Lomita Marl; San Pedro, Los Angeles County, California.

Pitar (Lamelliconcha) sp.

STANTON, 1966 as pl. 6, figs. 1-2.

Figured specimen 4143; Miocene, Castaic Formation; Humphreys Quadrangle, Los Angeles County, California.

Tivela gastonensis

CLARK, 1925:93.

Paratype 4144 (unfigured); Oligocene; Scroggins Cañon, Gaston, Washington County, Oregon.

Tivela scarificata

BERRY, 1940:5.

2 paratypes 4145-4146 (unfigured); Pleistocene; NW corner of Beacon and 2nd Sts., San Pedro, Los Angeles County, California.

Order MYOIDA

Family HIATELLIDAE

Panomya beringianus Dall, 1916

WOODRING, BRAMLETTE and KEW, 1946 as pl. 33, fig. 13.

Figured specimen 4147; Pleistocene, Timms Point Silt; Timms Point, San Pedro, Los Angeles County, California.

Order PHOLADOMYOIDA
Family PANDORIDAE

Pandora grandis Dall, 1877

WOODRING, BRAMLETTE and KEW, 1946 as pl. 33, fig. 18.

Figured specimen 4148; Pleistocene, Timms Point Silt; Timms Point, San Pedro, Los Angeles County, California.

Family PERIPLOMATIDAE

Periploma cf. *P. discus* Stearns, 1890

STANTON, 1966 as pl. 6, figs. 8-9.

Figured specimen 4149; Miocene, Castaic Formation; Bottom of small canyon tributary to Haskell Canyon, Los Angeles County, California.

Family THRACIIDAE

Thracia trapezoides Conrad, 1849

WOODRING, BRAMLETTE and KEW, 1946 as pl. 33, fig. 15.

Figured specimen 4150; Pleistocene, Timms Point Silt; Timms Point, San Pedro, Los Angeles County, California.

Class GASTROPODA
Order ARCHAEOGASTROPODA
Family ACMAEIDAE

Acmaea lepisma

BERRY, 1940:155.

4 paratypes 4151-4154 (all unfigured); Pleistocene; Hilltop Quarry, San Pedro, Los Angeles County, California.

Family HALIOTIDAE

Haliotis lomaensis

ANDERSON, 1902:75.

Plastoholotype 4155; Cretaceous; Point Loma, San Diego, San Diego County, California.

Haliotis palaea

WOODRING, 1931:38, pl. 6, figs. 1-3.

Holotype 4156 (fig. 1); paratype 4157 (fig. 2); Miocene; Brown Canyon, Santa Monica Mountains, Los Angeles County, California.

Family LIOTIIDAE

Liotia carinata Carpenter, 1857

STANTON, 1966 as pl. 6, figs. 15-16.

Figured specimen 4158; Miocene, Castaic Formation; Humphreys Quadrangle, Los Angeles County, California.

Family NERITIDAE

Nerita sp.

STANTON, 1966 as pl. 6, figs. 13-14.

Figured specimen 4159; Miocene, Castaic Formation; NE bank of Castaic Canyon, Los Angeles County, California.

Family TROCHIDAE

Lirularia magna

T. S. OLDROYD, 1925:36.

9 paratypes 2460-2468 (unfigured); Pleistocene; San Pedro, Los Angeles County, California.

Turcica imperialis brevis Stewart in Woodring, Stewart and Richards, 1941.

WOODRING and BRAMLETTE, 1950 as pl. 12, figs. 12 and 14.

Figured specimen 4160; Pliocene, Careaga sandstone; Fugler Point, Santa Barbara County, California.

Turricula santacruzana

ARNOLD, 1908:373.

Paratype 4161 (unfigured); Oligocene, San Lorenzo Formation; San Lorenzo River, 3 mi above Boulder Creek, Santa Cruz County, California.

Family TURBINIDAE

Astraea (Pomaulax) cf. A. (Pomaulax) gradata Grant and Gale, 1931

STANTON, 1966 as pl. 6, figs. 10-12.

2 figured specimens; 4162 (figs. 10-11) Miocene, Castaic Formation; Crest of ridge SE of Elderberry Canyon, Los Angeles County, California; 4163 (fig. 12) Miocene, Castaic Formation; Humphreys Quadrangle, Los Angeles County, California.

Astraea (Pomaulax) petrothauma

BERRY, 1940:156.

2 paratypes 4164-4165 (unfigured); Pleistocene; Hilltop Quarry, San Pedro, Los Angeles County, California.

Homalopoma cf. H. paucicostata (Dall, 1871)

WOODRING and BRAMLETTE, 1950 as pl. 12, fig. 4.

Figured specimen 4166; Pliocene, Careaga sandstone; Fugler Point, Santa Barbara County, California.

Leptothyra subobsoleta

WILLETT, 1937:63, pl. 25.

9 paratypes 2471-2479; Pleistocene, Timms Point Silt; Timms Point, San Pedro, Los Angeles County, California.

NOTE: The holotype, but no paratypes, was reported in Wilson and Bing (1970:7).

Order MESOGASTROPODA

Family CALYPTRAEIDAE

Crepidula princeps Conrad, 1856

WOODRING, BRAMLETTE and KEW, 1946 as pl. 32, figs. 5-6.

Figured specimen 4167; Pleistocene, Timms Point Silt; Timms Point, San Pedro, Los Angeles County, California.

Trochita cf. T. trochiformis (Born, 1778)

STANTON, 1966 as pl. 7, fig. 8.

Figured specimen 4168; Miocene, Castaic Formation; Humphreys Quadrangle, Los Angeles County, California.

Family CERITHIIDAE

?Bittium arnoldi Bartsch, 1911

STANTON, 1966 as pl. 6, fig. 17.

Figured specimen 4169; Miocene, Castaic Formation; W side of northerly trending tributary to Elizabeth Lake Canyon, Los Angeles County, California.

Family FICIDAE

Ficus (Trophosycon) ocoyana (Conrad, 1855)

STANTON, 1966 as pl. 7, figs. 9-10.

2 figured specimens; 4170 (fig. 9); Miocene, Castaic Formation; W side of northerly trending tributary to Elizabeth Lake Canyon, Los Angeles County, California; 4171 (fig. 10); Miocene, Castaic Formation, Humphreys Quadrangle, Los Angeles County, California.

Family NATICIDAE

Ampullina packardi

POPENOE, 1937:399.

Plastoholotype 4172; Cretaceous, Ladd Formation; Santa Ana Mountains, Orange County, California.

Family TURRITELLIDAE

Turritella andersoni mulleri

MERRIAM, 1941:80.

3 paratypes 4173-4175 (all unfigured); Eocene; Mount Pinos Quadrangle, Ventura County, California.

Turritella cooperi Carpenter, 1864

STANTON, 1966 as pl. 7, figs. 1-5.

5 figured specimens 4176 (fig. 1); 4177 (fig. 2); 4178 (fig. 3); 4179 (fig. 4); 4180 (fig. 5); Miocene, Castaic Formation; On ridge W of junction of Reynier and Sand Canyons, Los Angeles County, California.

Turritella aff. *T. freya* Nomland, 1917

STANTON, 1966 as pl. 7, figs. 6-7.

2 figured specimens 4181 (fig. 6); 4182 (fig. 7); Miocene, Castaic Formation; on ridge W of junction of Reynier and Sand Canyon, Los Angeles County, California.

Turritella inezana Conrad, 1857

WOODRING, 1942 as pl. 13, figs. 3-4 and pl. 14, fig. 3.

3 figured specimens 4183 (pl. 13, fig. 3); 4184 (pl. 13, fig. 4); 4185 (pl. 14, fig. 3); Miocene; Cajon Pass, San Bernardino County, California.

Turritella iota

POPENOE, 1937:401.

Plastoholotype 4186; Cretaceous, Ladd Formation; Santa Ana Mountains, Orange County, California.

Turritella ocoyana var. *topangaensis*

MERRIAM, 1941:115.

Plastoparatype 4187; Miocene, Topanga Formation; La Panza Mountains, San Luis Obispo County, California.

Turritella ossa

POPENOE, 1937:401.

Plastoholotype 4188; 2 plastoparatypes 4189-4190; Cretaceous, Ladd Formation; Santa Ana Mountains, Orange County, California.

Turritella uvasana subsp. *infera*

MERRIAM, 1941:90.

Plastoparatype 4191; Eocene, Santa Susana Formation; Simi Valley, Ventura County, California.

Turritella uvasana subsp. *stewarti*

MERRIAM, 1941:95.

Plastoparatype 4192; Eocene, Cowlitz Formation; Coal Creek, Cowlitz County, Washington.

Family VIVIPARIDAE

Viviparus washingtonianus

ARNOLD and HANNIBAL in HANNIBAL, 1912:194.

Paratype 4193 (unfigured); Eocene; Olequa Creek, 2 mi N of Little Falls, Washington.

Order NEOGASTROPODA

Family BUCCINIDAE

Calicantharus fortis var. cf. *angulata* (Arnold, 1907)

WOODRING and BRAMLETTE, 1950 as pl. 14, fig. 10.

Figured specimen 4194; Pliocene, Careaga sandstone; Fugler Point, Santa Barbara County, California.

Gyrineum lewisii

CARSON, 1926:54.

Paratype 4195 (unfigured); Lower Pliocene; Fugler's Point, Santa Maria District, Santa Barbara County, California.

Family FASCIOLARIDAE

Lirofusus ashleyi

ARNOLD, 1908:372.

Paratype 4196 (unfigured); Oligocene, San Lorenzo Formation; 3 mi above Boulder Creek, Santa Cruz County, California.

Family MARGINELLIDAE

Marginella cf. *M. albuminosa* Dall, 1919

STANTON, 1966 as pl. 7, figs. 14-15.

Figured specimen 4197; Miocene, Castaic Formation; Humphreys Quadrangle, Los Angeles County, California.

Family MURICIDAE

Jaton cf. *J. carpenteri* (Dall, 1899)

WOODRING and BRAMLETTE, 1950 as pl. 15, figs. 9 and 11.

Figured specimen 4198; Pliocene, Careaga sandstone; Fugler Point, Santa Barbara County, California.

Family NEPTUNEIDAE

Kelletia kanakoffi

HERTLEIN, 1970:3, figs. 1-3.

Holotype 2456 (figs. 1-2); paratype 2457 (fig. 3); Pleistocene, Lomita Marl; San Pedro, Los Angeles County, California.

Family OLIVIDAE

Oliva spicata (Röding, 1798)

STANTON, 1966 as pl. 7, fig. 13.

Figured specimen 4199; Miocene, Castaic Formation; W of Haskell Canyon, Los Angeles County, California.

Family THAIDIDAE

Thais (Nucella) shumanensis

CARSON, 1926:56.

Paratype 4200 (unfigured); Pliocene, Fernando Formation; ½ mi N of Schuman, Santa Barbara County, California.

Family TURRIDAE

Anomalosipho sp.

STANTON, 1966 as pl. 7, figs. 11-12.

2 figured specimens 4201 (fig. 11); 4202 (fig. 12); Miocene, Castaic Formation; Bottom of small canyon tributary to Haskell Canyon, Los Angeles County, California.

Antiplanes sp.

STANTON, 1966 as pl. 7, fig. 16.

Figured specimen 4203; Miocene, Castaic Formation; On ridge W of junction of Reynier and Sand Canyons, Los Angeles County, California.

Clathurella (Glyphostoma) tridesmia

BERRY, 1941:8.

3 paratypes 4204-4206 (all unfigured); Pleistocene; Hilltop Quarry, San Pedro, Los Angeles County, California.

Mitromorpha barbarensis woodfordi

BERRY, 1941:10.

2 paratypes 4207-4208 (both unfigured); Pleistocene; Hilltop Quarry, San Pedro, Los Angeles County, California.

Mitromorpha galeana

BERRY, 1941:12.

2 paratypes 4209-4210 (both unfigured); Pleistocene; Hilltop Quarry, San Pedro, Los Angeles County, California.

Moniliopsis chacei

BERRY, 1941:6.

Paratype 4211 (unfigured); Pleistocene; Hilltop Quarry, San Pedro, Los Angeles County, California.

Family VOLUTIDAE

Lyria andersoni

WARING, 1917:97.

Paratype 4212 (unfigured); Eocene, Tejon Formation; McCray Wells, Ventura County, California.

Psephaea oregonensis (Dall, 1907)

WOODRING and BRAMLETTE, 1950 as pl. 14, fig. 4-5.

Figured specimen 4213; Pliocene, Careaga Sandstone; Fugler Point, Santa Maria, Santa Barbara County, California.

Order ENTOMOTAENIATA

Family PYRAMIDELLIDAE

Iselica fenestrata (Carpenter, 1864)

WOODRING and BRAMLETTE, 1950 as pl. 13, figs. 17-18.

Figured specimen 4214; Pliocene, Careaga sandstone; Fugler Point, S side of Santa Maria River, Santa Barbara County, California.

Order STYLOMMATOPHORA
Family FRUTICICOLIDAE

Helminthoglypta ? stocki

HANNA, 1934:539, figs. 1-3a.

Holotype 4261 (fig. 1); 2 paratypes 4262 (figs. 2, 3, 3a); 4263 (unfigured); Eocene; N of Simi Valley, Ventura County, California.

Order CEPHALASPIDIA
Family ACTEONIDAE

Acteon cf. *A. boulderana* Etherington, 1931

STANTON, 1966 as pl. 7, fig. 17.

Figured specimen 4215; Miocene, Castaic Formation; NE side of Castaic Canyon, Los Angeles County, California.

Class SCAPHOPODA
Order SOLENOCONCHA
Family DENTALIIDAE

Dentalium sp.

STANTON, 1966 as pl. 7, fig. 21.

Figured specimen 4216; Miocene, Castaic Formation; N side of small W trending valley E of Canyon Dam, Los Angeles County, California.

Class CEPHALOPODA
Order AMMONOIDEA
Family NOSTCERATIDAE

**Ainoceras kamuy*

MATSUMOTO and KANIE, 1967:351.

Plastoparatype 4309; Cretaceous; Hattori Ranch, Urakawa, Hidaka Province, Hokkaido, Japan.

Family PACHYDISCIDAE

Pachydiscus seppenradensis

LANDOIS, 1895:99.

Plastosyntype 4310; Cretaceous; Seppenrade, Westphalia, Germany.

Phylum ECHINODERMATA
Class STELLEROIDEA
Order PAXILLOSIDA
Family ASTROPECTINIDAE

Astropecten matilijaensis

DURHAM and ROBERTS, 1948:435, pl. 65, figs. 1-5; pl. 66, figs. 2, 4-5. DURHAM, 1948: 28.

Holotype 4217 (Durham and Roberts 1948, pl. 65, figs. 3-4); 29 paratypes 4218 (Durham and Roberts 1948, pl. 65, fig. 1; pl. 66, fig. 4); 4219 (Durham and Roberts 1948, pl. 65, fig. 2; Durham 1948:28); 4220 (Durham and Roberts 1948, pl. 65, fig. 5); 4221 (Durham and Roberts 1948, pl. 66, fig. 2); 4222 (Durham and Roberts 1948, pl. 66, fig. 5); 4223 (Durham and Roberts 1948, pl. 65, fig. 3, upper); 4224 (Durham and Roberts 1948, pl. 65, fig. 3, lower); 4225-4247 (unfigured); Cretaceous, Chico Formation [Eocene, Cozy Dell Formation]; North fork of Matilija Creek, Ventura County, California.

Order FORCIPULATIDA
Family ECHINASTERIDAE

Henricia (?) *venturana*

DURHAM and ROBERTS, 1948:437, pl. 66, figs. 1 and 3.

Holotype 4248; Cretaceous, Chico Formation [Eocene, Cozy Dell Formation]; North fork of Matilija Creek, Ventura County, California.

Class ECHINOIDEA
Order GIDAROIDA
Family CIDARIDAE

Cidarid spines

STANTON, 1966 as pl. 7, figs. 18-20.

2 figured specimens 4249 (pl. 7, fig. 18; Miocene, Castaic Formation; Humphreys Quadrangle, Los Angeles County, California) 4250 (pl. 7, figs. 19-20); Miocene, Castaic Formation; Castaic Creek, N of Cordova Ranch, Los Angeles County, California.

Order CLYPEASTEROIDA
Family ECHINARACHNIIDAE

Astrodapsis fernandoensis Pack, 1909

STANTON, 1966 as pl. 7, fig. 22.

Figured specimen 4251; Miocene, Castaic Formation; Bottom of small canyon tributary to Haskell Canyon, Los Angeles County, California.

Phylum ARTHROPODA
Class ARACHNIDA
Order PEDIPALPIDA
Family SCHIZOMIDAE

**Caloschizomus latisternum*

PIERCE, 1951a:41, pl. 14, fig. 4; pl. 15, fig. 7.

PETRUNKEVITCH, 1955, fig. 90, 1a.

Holotype 2505; Tertiary; Bonner Quarry, Kaibab National Forest, Yavapai County, Arizona.

**Onychothelyphonus bonneri*

PIERCE, 1950d:3, pl. 34, fig. 1.

PETRUNKEVITCH, 1955, fig. 90, 1b.

Holotype 2509; Tertiary; Bonner Quarry, Kaibab National Forest, Yavapai County, Arizona.

Thelyphonus hadleyi

PIERCE, 1945c:7, pl. 5.

Holotype 2504; Middle Miocene; Cabrillo Beach, San Pedro, Los Angeles County, California.

Order ARANEIDA
Family ARGYRONETIDAE

Argyroneta antiqua Heyden, 1859

FURST, 1959:12, p. 12, pl. and fig. unnumbered.

FURST, 1970:23, p. 23, bottom fig., unnumbered.

Figured specimen 3086; Oligocene; Rott, Rheinland, Germany.

Family SALIICIDAE

Salticus seymouri

PIERCE, 1950a:3 (unfigured).

5 syntypes 2499-2503; Pleistocene; Seymour River, 8 mi above Vancouver Channel, British Columbia, Canada.

Class CRUSTACEA
Order CLADOCERA
Family DAPHNIDAE

Daphnia [sic] *fossilis* Heyden

STATZ, 1938b:56, fig. 13.

Figured specimen 3087; Oligocene; Rott, Rheinland, Germany.

Order DECAPODA
Family CANCRIDAE

Cancer branneri Rathbun, 1926

MENZIES, 1951:165, figs. 2a-2b.

2 figured specimens 2448 (fig. 2a); 2449 (fig. 2b); Pleistocene, Timm's Point Formation; San Pedro, Los Angeles County, California.

Cancer jordani Rathbun, 1900

MENZIES, 1951:165, figs. 5a-5d.

2 figured specimens 2446 (figs. 5a-5b); 2447 (figs. 5c-5d); Pleistocene; San Pedro, Los Angeles County, California.

Cancer productus Randall, 1839

MENZIES, 1951:165, figs. 4a-4d.

2 figured specimens 2444 (figs. 4a-4b) (MISSING); 2445 (figs. 4c-4d) (MISSING); Pleistocene; San Pedro, Los Angeles County, California.

Family PALAEMONIDAE

Micropsalis papyracea Meyer, 1859

STATZ, 1938a:29, fig. 12.

Figured specimen 3088; Oligocene; Rott, Rheinland, Germany.

Class DIPLOPODA
Order JULIDA
Family PARAJULIDAE

Parajulus lasti

PIERCE, 1945a:1, pl. 1.

Holotype 2497; Upper Miocene; Oxnard, Ventura County, California.

Parajulus onychis

PIERCE, 1951b:41, pl. 15, figs. 8-9.

Holotype 2498; Tertiary; Bonner Quarry, Kaibab National Forest, Yavapai County, Arizona.

Class INSECTA
Order COLLEMBOLA
Family PALAEOSMINTHURIDAE

**Palaeosminthurus juliae*

PIERCE and GIBRON, 1962:147, fig. 4.

Holotype 2512; Miocene, Barstow Formation; southern Calico Mountains, San Bernardino County, California.

Order DIPLURA
Family CAMPODEIDAE

**Onychocampodea onychis*

PIERCE, 1951c:48, pl. 17, fig. 11.

Holotype 2506; Tertiary; Bonner Quarry, Kaibab National Forest, Yavapai County, Arizona.

Family JAPYGIDAE

**Onychojapyx schmidtii*

PIERCE, 1950e:104, pl. 34, fig. 2.

Holotype 2508; Tertiary; Bonner Quarry, Kaibab National Forest, Yavapai County, Arizona.

Family PROJAPYGIDAE

**Plioprojapyx primitivus*

PIERCE, 1951c:48, pl. 18, fig. 16.

Holotype 2511; Tertiary; Bonner Quarry, Kaibab National Forest, Yavapai County, Arizona.

Order THYSANURA
Family LEPISMATIDAE**Onycholepisma arizonae*

PIERCE, 1951c:45, pl. 17, fig. 14.

Holotype 2510; Tertiary; Bonner Quarry, Kaibab National Forest, Yavapai County, Arizona.

Family MACHILIDAE

**Onychomachilis fisheri*

PIERCE, 1951c:45, pl. 17, figs. 12 and 15.

Holotype 2507 (MISSING); Tertiary, Bonner Quarry, Kaibab National Forest, Yavapai County, Arizona.

Order EPHEMEROPTERA
Family APHELOPHLEBODIDAE**Aphelophlebodes stocki*

PIERCE, 1945b:4, pl. 2.

Holotype 2513; Upper Miocene; Puente Hills, SE of Puente, Los Angeles County, California.

Order ODONATA
Family AGRIONIDAE*Lestes* sp.

STATZ, 1938b:58, fig. 16.

Figured specimen 3089; Oligocene; Rott, Rheinland, Germany.

Lestes grandis

STATZ, 1930:11, fig. 1.

Holotype 3090; Oligocene; Rott, Rheinland, Germany.

NOTE: The figured plate is in the Kastenholz collection; the counterplate is in the Natural History Museum of Los Angeles County.

Family COENAGRIONIDAE

**Sobobapteron kirkbyae*

PIERCE, 1965:160, fig. 2.

Holotype 2514 (MISSING); Upper Miocene; Woodcrest Drive, Sherman Oaks, Los Angeles County, California.

NOTE: Carpenter (1968) moved this species from the order Protorthoptera where it was originally placed to the present position, order Odonata, family Coenagrionidae.

Family LIBELLULIDAE

?Libellulidae (nymph)

MOUNT, 1971:3, fig. 1.

Figured specimen 3085; Miocene, Altamira shale; Float between Cabrillo Beach and Point Fermin, San Pedro, Los Angeles County, California.

Celithemis cellulosa (Hagen, 1863)

STATZ, 1938b:57, fig. 15.

Figured specimen 3091; Oligocene; Rott, Rheinland, Germany.

Libellula ceres Hagen, 1863

STATZ, 1938b:56, fig. 14.

Figured specimen 3092 (MISSING); Oligocene; Rott, Rheinland, Germany.

Order PLECOPTERA

Family LEUCTRIDAE

Leuctra antiqua

STATZ, 1938b:58, fig. 17.

Figured specimen 3093; Oligocene; Rott, Rheinland, Germany.

Family LIPOSCELIDAE

**Miotroctes rousei*

PIERCE, 1960:46, pl. 16, fig. 7.

Holotype 2526 (MISSING); Miocene, Barstow Formation; southern Calico Mountains, San Bernardino County, California.

Order ORTHOPTERA

Family BLATTIDAE

Blaberites rhenana

STATZ, 1939:10, pl. 4, figs. 14-15.

2 syntypes 3094 (fig. 14) and 3095 (fig. 15); Oligocene; Rott, Rheinland, Germany.

Ectobius glabellus

STATZ, 1939:12, pl. 5, figs. 18-22.

3 syntypes 3096 (figs. 18 and 19), 3097 (figs. 20-21), 3098 (fig. 22); Oligocene; Rott, Rheinland, Germany.

Nyctibora ? elongata

STATZ, 1939:11, pl. 4, figs. 16-17.

Holotype 3099; Oligocene; Rott, Rheinland, Germany.

Family EXAERETOPTERIDAE

**Exaeretoptera fosteri*

PIERCE, 1944c:15, pls. 5-6.

Holotype 2516; Upper Miocene; Fort MacArthur, San Pedro, Los Angeles County, California.

Family GRYLLIDAE

Liogryllus rottensis

STATZ, 1939:8, pl. 2, figs. 8-9; pl. 3, figs. 12-13.

3 syntypes 3100 (pl. 2, figs. 8-9); 3102 (pl. 3, figs. 12-13); 3103 (unfigured); Oligocene; Rott, Rheinland, Germany.

Family PHASMIDAE

**Calcibacunculus tenuis*

PIERCE, 1951c:48, pl. 17, fig. 13; pl. 18, fig. 17.

Holotype 2526; Tertiary; Bonner Quarry, Kaibab National Forest, Yavapai County, Arizona.

Family TETTIGONIIDAE

**Protosegestes lloydi*

PIERCE, 1944c:13, pl. 4.

Holotype 2517; Upper Miocene; Fort MacArthur, San Pedro, Los Angeles County, California.

Tettigoniidarum spec. indet. Nr. 1

STATZ, 1939, pl. 1, fig. 1.

Figured specimen 3103; Oligocene; Rott, Rheinland, Germany.

Tettigoniidarum spec. indet. Nr. 2

STATZ, 1939, pl. 1, fig. 2.

Figured specimen 3104; Oligocene; Rott, Rheinland, Germany.

Order ISOPTERA

Family HODOTERMITIDAE

Calotermes rottensis

STATZ, 1930:12.

STATZ, 1939 as pl. 7, figs. 32-33.

STATZ, 1940a as figs. 3-4.

EMERSON, 1968 as figs. 2a-2c and 2f.

Lectotype 3105 (unfigured; Emerson, 1968: 16); 27 paralectotypes, 3106 (Statz, 1939, pl. 7, fig. 32-1); 3107 (Statz, 1939, pl. 7, fig. 32-2); 3108 (Statz, 1939, pl. 7, fig. 32-3); 3109 (Statz, 1939, pl. 8, fig. 33-1); 3110 (Statz, 1939, pl. 8, fig. 33-2); 3111 (Statz, 1939, pl. 8, fig. 33-3); 3112 (Statz, 1940a, fig. 4); 3113 (Emerson, 1968, fig. 2C); 3114 (Emerson, 1968, fig. 2F); 3115-3130 (unfigured); 4021-4022 (unfigured); Oligocene; Rott, Rheinland, Germany.

NOTE 1: In 1939 Statz changed the generic name from *Calotermes* to *Ulmeriella* and credited the species name to Meunier. Emerson (1968:16) when selecting the lectotype could find no reason for attributing the species to Meunier.

NOTE 2: Statz stated that the original figured specimen for this species was in the Kastenholz collection. Emerson (1968) has selected the counterplate of this specimen as the lectotype.

Ulmeriella bauckhorni Meunier, 1920

STATZ, 1939, as pl. 6, figs. 28-30 and fig. 35.

STATZ, 1940a as fig. 1-2.

EMERSON, 1968 as figs. 2A-2B.

5 figured specimens 3131 (Statz, 1939, pl. 6, fig. 28); 3132 (Statz, 1939, pl. 6, fig. 29); 3133 (Statz, 1939, pl. 6, fig. 26; Statz, 1940a, fig. 1); 3134 (Statz, 1940a, fig. 2); 3135 (Emerson, 1968, figs. 2A-2B); Oligocene; Rott, Rheinland, Germany.

Ulmeriella rottensis (See *Calotermes rottensis*)

Family KALOTERMITIDAE

Calotermes rhenanus Hagen, 1863

STATZ, 1939 as pl. 8, figs. 34-35.

STATZ, 1940a as fig. 6.

STATZ, 1941c as fig. 5.

3 figured specimens 3136 (Statz, 1939, pl. 8, fig. 34); 3137 (Statz, 1939, pl. 8, fig. 35); 3138 (Statz, 1940a, fig. 6; 1941c, fig. 5); Oligocene; Rott, Rheinland, Germany.

Cryptotermes ryshkoffi

PIERCE, 1958:19, pl. 5, fig. 1; pl. 6, fig. 1.

Holotype 2418; Miocene, Barstow Formation; southern Calico Mountains, San Bernardino County, California.

**Eotermes grandaeva*

STATZ, 1939:13, pl. 6, figs. 23-25.

EMERSON, 1969 as figs. 1-2.

Lectotype 3139 (Emerson, 1969, fig. 2); 4 paralectotypes 3140 (Statz, 1939, fig. 23); 3141 (Statz, 1939, fig. 24); 3142 (Emerson, 1969, fig. 1a); 3143 (Emerson, 1969, figs. 1b-1c); Oligocene; Rott, Rheinland, Germany.

Family RHINOTERMITIDAE

Parastylotermes calico

PIERCE, 1958:19, pl. 5, fig. 2; pl. 6, fig. 7.

EMERSON, 1971 as fig. 15.

Holotype 2520; Miocene, Barstow Formation; southern Calico Mountains, San Bernardino County, California.

Recticulitermes laurae

PIERCE, 1958:20, pl. 5, fig. 3; pl. 6, fig. 8; pl. 10, fig. 10.

EMERSON, 1971 as figs. 8-9.

Holotype 2521 (Pierce, 1958, pl. 5, fig. 3; pl. 7, fig. 10; Emerson, 1971, fig. 8); 4 paratypes 2522 (Pierce, 1958, pl. 6, fig. 8; Emerson, 1971, fig. 9); 2523-2525 (unfigured; 2524 MISSING); Miocene, Barstow Formation; southern Calico Mountains, San Bernardino County, California.

**Termes* "adustus

STATZ, 1939:20, pl. 10, figs. 47-48.

Holotype 3144; Oligocene; Rott, Rheinland, Germany.

**Termes* "aethiops

STATZ, 1939:19, pl. 9, fig. 39.

STATZ, 1940a as fig. 10.

Holotype 3145; Oligocene; Rott, Rheinland, Germany.

**Termes* "atomus

STATZ, 1939:21, pl. 10, figs. 49-50.

Holotype 3146; Oligocene; Rott, Rheinland, Germany.

**Termes* "blandus

STATZ, 1939:19, pl. 9, figs. 41-42.

Holotype 3147; paratype 3148 (unfigured); Oligocene; Rott, Rheinland, Germany.

**Termes* "concinuus

STATZ, 1939:20, pl. 10, fig. 43.

STATZ, 1940a as fig. 11.

Holotype 3149; Oligocene; Rott, Rheinland, Germany.

"Termes" contractulus

STATZ, 1939:20, pl. 10, figs. 45-46.

Holotype 3150; Oligocene; Rott, Rheinland, Germany.

"Termes" holmgreni

STATZ, 1939:18, pl. 8, fig. 36.

STATZ, 1940a as fig. 9.

EMERSON, 1971 as fig. 7b.

Holotype 3151; Oligocene; Rott, Rheinland, Germany.

Family TERMITIDAE

Gnathamitermes magnoculus rousei

PIERCE, 1958:21, pl. 5, fig. 9; pl. 6, fig. 9.

Holotype 2519; Miocene, Barstow Formation; southern Calico Mountains, San Bernardino County, California.

Order HETEROPTERA
Family ANTHOCORIDAE*Temnostethus blandus*

STATZ in STATZ and WAGNER, 1950:103, pl. 24, fig. 17.

Holotype 3152; Oligocene; Rott, Rheinland, Germany.

Family COREIDAE

Coreide sp. A. [sic] Coreidae

In STATZ and WAGNER, 1950 as pl. 27, fig. 47.

Figured specimen 3153; Oligocene; Rott, Rheinland, Germany.

Coreide sp. B. [sic] Coreidae

In STATZ and WAGNER, 1950 as pl. 27, fig. 48.

Figured specimen 3154; Oligocene; Rott, Rheinland, Germany.

Syromastes punctiventris

STATZ in STATZ and WAGNER, 1950:119, pl. 27, fig. 46.

Holotype 3155; Oligocene; Rott, Rheinland, Germany.

Family CORIXIDAE

Corixa ♂ Nr. 1

STATZ, 1950b as pl. 20, figs. 75-76.

2 figured specimens 3156 (pl. 20, fig. 75); 3157 (pl. 20, fig. 76) (MISSING); Oligocene; Rott, Rheinland, Germany.

Corixa ♂ Nr. 2

STATZ, 1950b as pl. 20, fig. 78.

Figured specimen 3158; Oligocene; Rott, Rheinland, Germany.

Corixa ♂ Nr. 3

STATZ, 1950b as pl. 20, fig. 80.

Figured specimen 3159; Oligocene; Rott, Rheinland, Germany.

Corixa ♂ Nr. 4

STATZ, 1950b as pl. 20, fig. 81.

3 figured specimens 3160 (fig. 81; MISSING); 3161 (fig. 82); 3162 (fig. 83); Oligocene; Rott, Rheinland, Germany.

Corixa rhenana

STATZ, 1950b:71, pl. 11, fig. 16; pl. 20, figs. 77 and 79.

2 syntypes 3163 (pl. 11, fig. 16; pl. 20, fig. 79); 3164 (pl. 20, fig. 77); Oligocene; Rott, Rheinland, Germany.

NOTE: Syntype 3163 was figured by Statz (1938b, fig. 27) as *Corixa elegans* von Schlechtendal, 1898.

Corixa vidua

STATZ, 1950b:72 (no figs.)

7 syntypes 3165-3171 (MISSING); Oligocene; Rott, Rheinland, Germany.

Family CYDNIDAE

Crocistethus ? madens

STATZ in STATZ and WAGNER, 1950:126, pl. 22, fig. 9; pl. 28, fig. 56.

Holotype 3172; Oligocene; Rott, Rheinland, Germany.

Cydnus ? picatus

STATZ in STATZ and WAGNER, 1950:124, no figs.

Holotype 3173 (MISSING); Oligocene; Rott, Rheinland, Germany.

Sehirus lygaeus

STATZ in STATZ and WAGNER, 1950:125, pl. 28, figs. 58-59.

Holotype 3174; Oligocene; Rott, Rheinland, Germany.

Sehirus paludosus

STATZ in STATZ and WAGNER, 1950:125, pl. 28, fig. 57.

Holotype 3175; Oligocene; Rott, Rheinland, Germany.

Sehirus spinitibialis

STATZ in STATZ and WAGNER, 1950:126, pl. 22, fig. 11; pl. 28, fig. 55.

Holotype 3176; Oligocene; Rott, Rheinland, Germany.

Family VELIDAE

Velia bouatia

MEUNIER, 1914:191, fig. 3; pl. 4, fig. 6.

10 syntypes 4314 (fig. 3; pl. 4, fig. 6); 4315 (fig. 3); 4316 (fig. 3); 4317 (fig. 3); 4318 (fig. 3); 4319 (fig. 3); 4320-4323 (unfigured); Oligocene; Aix, Provence, France.

Family GERRIDAE

Gerris sp. (Nymph)

STATZ, 1950b as pl. 20, fig. 84.

Figured specimen 3177 (MISSING); Oligocene; Rott, Rheinland, Germany.

Family LYGAEIDAE

Lygaeide sp. A

In STATZ and WAGNER, 1950 as pl. 26, fig. 36.

Figured specimen 3178; Oligocene; Rott, Rheinland, Germany.

Lygaeide sp. B

In STATZ and WAGNER, 1950 as pl. 36, fig. 37.

Figured specimen 3179; Oligocene; Rott, Rheinland, Germany.

Lygaeide sp. C

In STATZ and WAGNER, 1950 as pl. 26, fig. 38.

Figured specimen 3180; Oligocene; Rott, Rheinland, Germany.

Lygaeide sp. D

In STATZ and WAGNER, 1950 as pl. 26, fig. 39.

Figured specimen 3181; Oligocene; Rott, Rheinland, Germany.

Lygaeide sp. E

In STATZ and WAGNER, 1950 as pl. 26, fig. 40.

Figured specimen 3182; Oligocene; Rott, Rheinland, Germany.

Lygaeide sp. I*Lygaeide* sp. H

In STATZ and WAGNER, 1950 as pl. 26, fig. 42.

Figured specimen 3183; Oligocene; Rott, Rheinland, Germany.

In STATZ and WAGNER, 1950 as pl. 26, fig. 43.

Figured specimen 3184 (MISSING); Oligocene; Rott, Rheinland, Germany.

Heterogasterine sp.

In STATZ and WAGNER, 1950 as pl. 25, figs. 27-28.

Figured specimen 3185; Oligocene; Rott, Rheinland, Germany.

Chilacis ? *univestris*

STATZ *in* STATZ and WAGNER, 1950:108, pl. 24, fig. 22.

Holotype 3186; Oligocene; Rott, Rheinland, Germany.

Drymus punctatus

STATZ *in* STATZ and WAGNER, 1950:113, pl. 26, fig. 35.

Holotype 3187; Oligocene; Rott, Rheinland, Germany.

Ischnodemus rottensis

STATZ *in* STATZ and WAGNER, 1950:108, pl. 24, figs. 24-26.

4 syntypes; 3188 (fig. 24); 3189-3191 (unfigured); Oligocene; Rott, Rheinland, Germany.

NOTE: Statz refers to an unspecified number of specimens (syntypes), four in his collection and the remainder in the Kastenholz collection. Only one of those figured is in the LACM collection. The other two figured specimens are presumed to be in the Kastenholz collection.

Lygaeosoma wagneri

STATZ *in* STATZ and WAGNER, 1950:107, pl. 21, fig. 2; pl. 24, fig. 23.

Holotype 3192; Oligocene; Rott, Rheinland, Germany.

Pionosomus ? *pusillus*

STATZ *in* STATZ and WAGNER, 1950:110, pl. 25, fig. 31.

Holotype 3193; Oligocene; Rott, Rheinland, Germany.

Raglius austerus

STATZ *in* STATZ and WAGNER, 1950:111, pl. 25, fig. 32.

Holotype 3194; Oligocene; Rott, Rheinland, Germany.

Raglius ? *decoratus*

STATZ *in* STATZ and WAGNER, 1950:112, pl. 25, figs. 33-34.

Holotype 3195; Oligocene; Rott, Rheinland, Germany.

Raglius pulchellus

STATZ *in* STATZ and WAGNER, 1950:110, pl. 25, fig. 30.

Holotype 3196; Oligocene; Rott, Rheinland, Germany.

Scolopostethus statzi

WAGNER *in* STATZ and WAGNER, 1950:116, pl. 26, fig. 41.

Holotype 3197; Oligocene; Rott, Rheinland, Germany.

Family MIRIDAE

Calocoris antennatus

STATZ and WAGNER, 1950 as pl. 24, fig. 21.

24, fig. 18.

Holotype 3198; Oligocene; Rott, Rheinland, Germany.

Heterocordylus ? sp.

STATZ and WAGNER, 1950 as pl. 24, fig. 21.

Figured specimen 3199; Oligocene; Rott, Rheinland, Germany.

Lygus ? *oligocaenica*

STATZ in STATZ and WAGNER, 1950:105, pl. 24, fig. 19.

Holotype 3200 (MISSING); Oligocene; Rott, Rheinland, Germany.

Trapezonotus ? *riguus*

STATZ in STATZ and WAGNER, 1950:112, pl. 25, fig. 29.

Holotype 3201; Oligocene; Rott, Rheinland, Germany.

Trapezonotus ? *striatus*

WAGNER in STATZ and WAGNER, 1950:105, pl. 24, fig. 20.

Holotype 3202; Oligocene; Rott, Rheinland, Germany.

Family NAUCORIDAE

Naucoris rottensis Schlechtendal, 1899

STATZ, 1938b, fig. 28.

STATZ, 1950b, pl. 12, figs. 24-31; pl. 13, figs. 32-34; pl. 14, figs. 37-40; pl. 15, figs. 41-42, 44-47.

FURST, 1959:17, p. 17, pl. and fig. unnumbered.

19 figured specimens 3203 (Statz, 1938b, fig. 28; Statz, 1950b, pl. 13, fig. 34; Furst, 1959:17); 3204 (Statz, 1950b, pl. 12, fig. 24); 3205 (Statz, 1950b, pl. 12, fig. 25); 3206 (Statz, 1950b, pl. 12, fig. 26); 3207 (Statz, 1950b, pl. 12, fig. 27); 3208 (Statz, 1950b, pl. 12, fig. 28); 3209 (Statz, 1950b, pl. 12, fig. 29); 3210 (Statz, 1950b, pl. 12, fig. 30); 3211 (Statz, 1950b, pl. 12, fig. 31); 3212 (Statz, 1950b, pl. 13, figs. 32 and 33); 3213 (Statz, 1950b, pl. 14, fig. 37); 3214 (Statz, 1950b, pl. 14, fig. 38); 3215 (Statz, 1950b, pl. 14, fig. 39); 3216 (Statz, 1950b, pl. 14, fig. 40); 3217 (Statz, 1950b, pl. 15, fig. 41); 3218 (Statz, 1950b, pl. 15, fig. 42); 3219 (Statz, 1950b, pl. 15, fig. 44); 3220 (Statz, 1950b, pl. 15, figs. 45 and 46); 3221 (Statz, 1950b, pl. 15, fig. 47); Oligocene; Rott, Rheinland, Germany.

Family NEPIDAE

Ranatra asphalti

PIERCE, 1948b:29, pl. 6, figs. 13-15.

Holotype 2564; Pleistocene; asphalt deposit at McKittrick, Kern County, California.

Ranatra bessomi

PIERCE, 1948b:27, pl. 6, figs. 11-12; pl. 7, figs. 16-18.

Holotype 2565, 6 paratypes 2566-2571; Pleistocene; asphalt deposit at McKittrick, Kern County, California.

NOTE: I am unable to match the specimens with the drawings which appear to be composite.

Family NOTONECTIDAE

Notonecta (*Paranecta*) *badia*

PIERCE, 1948b:24, pl. 5, figs. 4-9.

Holotype 2527; allotype 2528; 36 paratypes 2529-2562; Pleistocene; asphalt deposit at McKittrick, Kern County, California.

NOTE: I am unable to match the specimens with the drawings.

Notonecta jubata Schlechtendal, 1894

STATZ, 1938b as fig. 29.

Figured specimen 3222; Oligocene; Rott, Rheinland, Germany.

Notonecta primaeva Heyden, 1859

STATZ, 1950b as pl. 16, figs. 49-53; pl. 17, figs. 58-59.

6 figured specimens 3223 (pl. 16, fig. 49); 3224 (pl. 16, fig. 50); 3225 (pl. 16, fig. 51); 3226 (pl. 16, fig. 52, MISSING); 3227 (pl. 16, fig. 53); 3228 (pl. 17, figs. 58 and 59); Oligocene; Rott, Rheinland, Germany.

Soevenia heydeni (Deichmüller, 1881)

STATZ, 1950b as pl. 13, figs. 35-36; pl. 17, figs. 54-57; pl. 18, figs. 60-67; pl. 19, figs. 68-74.

21 figured specimens 3229 (pl. 13, fig. 35); 3230 (pl. 13, fig. 36); 3231 (pl. 17, fig. 54); 3232 (pl. 17, fig. 55); 3233 (pl. 17, fig. 56); 3234 (pl. 17, fig. 57); 3235 (pl. 18, fig. 60); 3236 (pl. 18, fig. 61); 3237 (pl. 18, fig. 62); 3238 (pl. 18, fig. 63); 3239 (pl. 18, fig. 64); 3240 (pl. 18, fig. 65); 3241 (pl. 18, fig. 66); 3242 (pl. 18, fig. 67); 3243 (pl. 19, fig. 68); 3244 (pl. 19, fig. 69); 3245 (pl. 19, fig. 70, MISSING); 3246 (pl. 19, fig. 71); 3247 (pl. 19, fig. 72); 3248 (pl. 19, fig. 73); 3249 (pl. 19, fig. 74); Oligocene; Rott, Rheinland, Germany.

Family PENTATOMIDAE

Dinidorine sp. A

STATZ and WAGNER, 1950 as pl. 28, fig. 51.

Figured specimen 3250 (MISSING); Oligocene; Rott, Rheinland, Germany.

Pentatomine sp. A

STATZ and WAGNER, 1950 as pl. 28, fig. 52.

Figured specimen 3251 (MISSING); Oligocene, Rott, Rheinland, Germany.

Pentatomine sp. B

STATZ and WAGNER, 1950 as pl. 28, fig. 53.

Figured specimen 3252; Oligocene; Rott, Rheinland, Germany.

Pentatomine sp. C

STATZ and WAGNER, 1950 as pl. 28, fig. 54.

Figured specimen 3253; Oligocene; Rott, Rheinland, Germany.

Family PYRRHOCORIDAE

Pyrrhocoris ? tibialis

STATZ in STATZ and WAGNER, 1950:118, pl. 27, fig. 44.

Holotype 3257; Oligocene; Rott, Rheinland, Germany.

Family REDUVIIDAE

Rhinocoris michalki

STATZ in STATZ and WAGNER, 1950:102, pl. 23, fig. 16.

Syntype 3258 (MISSING); Oligocene; Rott, Rheinland, Germany.

NOTE: There is another figured syntype (pl. 21, fig. 3; pl. 23, fig. 15) in the Kastenholz collection.

Family SALDIDAE

**Oligosaldina aquatilis*

STATZ in STATZ and WAGNER, 1950:101, pl. 23, fig. 14.

Holotype 3259 (MISSING); Oligocene; Rott, Rheinland, Germany.

**Oligasaldina rhenana*

STATZ in STATZ and WAGNER, 1950:100, pl. 23, fig. 13.

Holotype 3260 (MISSING); Oligocene; Rott, Rheinland, Germany.

**Oligosaldina rottensis*

STATZ in STATZ and WAGNER, 1950:99, pl. 23, fig. 12.

Holotype 3261 (MISSING); Oligocene; Rott, Rheinland, Germany.

Family SCUTELLERIDAE

Scutellerine sp. A

STATZ and WAGNER, 1950 as pl. 27, fig. 45.

Figured specimen 3254 (MISSING); Oligocene; Rott, Rheinland, Germany.

Scutellerine sp. B

STATZ and WAGNER, 1950 as pl. 27, fig. 49.

Figured specimen 3255; Oligocene; Rott, Rheinland, Germany.

Poecilocoris ? rottensis

STATZ in STATZ and WAGNER, 1950:121, pl. 27, fig. 50.

Holotype 3256; Oligocene; Rott, Rheinland, Germany.

Order HOMOPTERA

Family AETHIALIONIDAE

Aethalion ? oligocaenica

STATZ, 1950a:6, pl. 3, figs. 32-33.

Holotype 3262; Oligocene; Rott, Rheinland, Germany.

Family CERCOPIDAE

Cercopis ? sp.

STATZ, 1950a as pl. 1, fig. 3; pl. 3, fig. 34.

Figured specimen 3263; Oligocene; Rott, Rheinland, Germany.

Family CHERMIDAE

**Draycotia cordovae*

PIERCE, 1948a:43, pl. 9.

Holotype 2572; Pleistocene; Cordova Bay, Vancouver Island, British Columbia, Canada.

Family CICADELLIDAE

**Miochlorotettix gibroni*

PIERCE, 1963:73, figs. 1-2, 15-17.

Holotype 2573 (figs. 1 and 15); allotype 2574 (figs. 16-17); figured paratype 2576 (fig. 2, MISSING); 9 unfigured paratypes 2575 and 2577-2584 (2577-2584 MISSING); Miocene, Barstow Formation; southern Calico Mountains, San Bernardino County, California.

**Miochlorotettix kirkbyi*

PIERCE, 1963:77, figs. 5 and 10-12.

Holotype 2585 (MISSING); Miocene, Barstow Formation; southern Calico Mountains, San Bernardino County, California.

**Miomesamia juliae*

PIERCE, 1963:81, figs. 8-9.

Holotype 2586; Miocene, Barstow Formation; southern Calico Mountains, San Bernardino County, California.

Phlepsius weissmanae

PIERCE, 1963:80, figs. 13-14.

Holotype 2563; Miocene, Barstow Formation; southern Calico Mountains, San Bernardino County, California.

**Protochlorotettix calico*

PIERCE, 1963:78, figs. 3-4 and 18.

Holotype 2587; Miocene, Barstow Formation; southern Calico Mountains, San Bernardino County, California.

Family CIXIIDAE

Cixius ? sp.

STATZ, 1950a as pl. 1, fig. 1; pl. 3, fig. 28.

Figured specimen 3264; Oligocene; Rott, Rheinland, Germany.

"Cixius" sp.

STATZ, 1950a as pl. 1, fig. 2; pl. 3, fig. 29.

Figured specimen 3265; Oligocene; Rott, Rheinland, Germany.

Hyalesthes ? *rottensis*

STATZ, 1950a:4, pl. 3, fig. 30.

Holotype 3266 (MISSING); Oligocene; Rott, Rheinland, Germany.

Family DELPHACIDAE

"Delphax" *rhenana*

STATZ, 1950a:5, pl. 3, fig. 31.

Holotype 3267; Oligocene; Rott, Rheinland, Germany.

Family JASSIDAE

Batrachomorphus ? *femoralis*

STATZ, 1950a:9, pl. 4, fig. 44.

Holotype 3268; Oligocene; Rott, Rheinland, Germany.

Bythoscopus *lunatus*

STATZ, 1950a:13, pl. 5, fig. 54.

Holotype 3269; Oligocene; Rott, Rheinland, Germany.

Bythoscopus *robustus*

STATZ, 1950a:14, pl. 5, fig. 55; pl. 6, fig. 56.

2 syntypes 3270 (pl. 5, fig. 55 MISSING); 3271 (pl. 6, fig. 56); Oligocene; Rott, Rheinland, Germany.

Bythoscopus *sepultus* (Meunier, 1917)

STATZ, 1950a as pl. 4, fig. 45; pl. 5, fig. 46-51.

7 figured specimens 3272 (pl. 4, fig. 45, MISSING); 3273 (pl. 5, fig. 46, MISSING); 3274 (pl. 5, fig. 47); 3275 (pl. 5, fig. 48); 3276 (pl. 5, fig. 49); 3277 (pl. 5, fig. 50, MISSING); 3278 (pl. 5, fig. 51); Oligocene; Rott, Rheinland, Germany.

Bythoscopus *sepultus* *austerus*

STATZ, 1950a:13, pl. 5, figs. 52-53.

11 syntypes 3279 (pl. 5, fig. 52); 3280 (pl. 5, fig. 53); 3281-3289 (unfigured); Oligocene; Rott, Rheinland, Germany.

Deltocephalus *aberrans*

STATZ, 1950a:18, pl. 2, fig. 19; pl. 6, figs. 63 and 65.

Holotype 3290 (MISSING); Oligocene; Rott, Rheinland, Germany.

Deltocephalus ? *maculipennis*

STATZ, 1950a:20, pl. 7, figs. 68-69.

2 syntypes 3291 (fig. 68); 3292 (fig. 69); Oligocene; Rott, Rheinland, Germany.

Deltocephalus ? *maculosus*

STATZ, 1950a:22, pl. 8, fig. 72.

Holotype 3293; Oligocene; Rott, Rheinland, Germany.

STATZ, 1950a:20, pl. 7, fig. 67.

Deltocephalus *nervosus*

Holotype 3294; Oligocene; Rott, Rheinland, Germany.

Deltocephalus ? pennatus

STATZ, 1950a:22, pl. 7, fig. 71.

Holotype 3295; Oligocene; Rott, Rheinland, Germany.

Deltocephalus robustus

STATZ, 1950a:19, pl. 2, fig. 22; pl. 7, fig. 66.

Holotype 3296; Oligocene; Rott, Rheinland, Germany.

Deltocephalus rottensis

STATZ, 1950a:18, pl. 2, figs. 20-21; pl. 6, fig. 64.

Holotype 3297; Oligocene; Rott, Rheinland, Germany.

Deltocephalus ? spinitibialis

STATZ, 1950a:21, pl. 7, fig. 70.

Holotype 3298; Oligocene; Rott, Rheinland, Germany.

Euscelis plateosus

STATZ, 1950a:23, pl. 8, fig. 73.

4 syntypes 3299 (pl. 8, fig. 73); 3300-3302 (unfigured); 3302 (MISSING); Oligocene; Rott, Rheinland, Germany.

**Gyponites abdominalis*

STATZ, 1950a:11, pl. 4, fig. 43.

Holotype 3303; Oligocene; Rott, Rheinland, Germany.

**Gyponites pronota*

STATZ, 1950a:10, pl. 4, fig. 42.

Holotype 3304; Oligocene; Rott, Rheinland, Germany.

Idiocerus ? sp.

STATZ, 1950a, as pl. 6, fig. 59.

Figured specimen 3305; Oligocene; Rott, Rheinland, Germany.

Idiocerus goeckei

STATZ, 1950a:17, pl. 6, figs. 60-62.

2 syntypes 3306 (figs. 60-61); 3307 (fig. 62); Oligocene; Rott, Rheinland, Germany.

Macropsis pectoralis

STATZ, 1950a:15, pl. 6, fig. 57.

Holotype 3308; Oligocene; Rott, Rheinland, Germany.

**Oligogypona haupti*

STATZ, 1950a:8, pl. 1, figs. 8-9; pl. 4, fig. 39.

Holotype 3309; Oligocene; Rott, Rheinland, Germany.

**Oligoidiocerus pronotumalis*

STATZ, 1950a:16, pl. 2, fig. 17; pl. 6, fig. 58.

Holotype 3310; Oligocene; Rott, Rheinland, Germany.

**Oligopenthimia ovalis*

STATZ, 1950a:9, pl. 1, fig. 6; pl. 4, figs. 40-41.

Holotype 3311; Oligocene; Rott, Rheinland, Germany.

Paropia ? fortivenosa

STATZ, 1950a:6, pl. 1, fig. 4; pl. 3, figs. 35-36.

Holotype 3312; Oligocene; Rott, Rheinland, Germany.

Tettigoniella ? capitata

STATZ, 1950a:7, pl. 1, fig. 5; pl. 4, figs. 37-38.

Holotype 3313; Oligocene; Rott, Rheinland, Germany.

Thamnotettix sp.

STATZ, 1950a as pl. 8, fig. 79.

Figured specimen 3314; Oligocene; Rott, Rheinland, Germany.

Thamnotettix ampliventris

STATZ, 1950a:24, pl. 8, fig. 76.

3 syntypes 3315 (pl. 8, fig. 76); 3316-3318 (unfigured; 3318 MISSING); Oligocene; Rott, Rheinland, Germany.

Thamnotettix angustipennis

STATZ, 1950a:24, pl. 2, fig. 25; pl. 8, fig. 75.

Holotype 3319; Oligocene; Rott, Rheinland, Germany.

Thamnotettix ? anthracinus

STATZ, 1950a:26, pl. 8, fig. 78.

Holotype 3320; Oligocene; Rott, Rheinland, Germany.

Thamnotettix clypealis

STATZ, 1950a:26, pl. 8, fig. 80.

2 syntypes 3321 (pl. 8, fig. 80); 3322 (unfigured); Oligocene; Rott, Rheinland, Germany.

Thamnotettix gracilentus

STATZ, 1950a:25, pl. 8, fig. 77.

12 syntypes 3323 (pl. 8, fig. 77); 3324-3334 (unfigured; 3334 MISSING); Oligocene; Rott, Rheinland, Germany.

Thamnotettix ustus

STATZ, 1950a:23, pl. 2, fig. 24; pl. 8, fig. 74.

Holotype 3335; Oligocene; Rott, Rheinland, Germany.

Order THYSANOPTERA
Family THRIPIDAE

Thrips sp.

STATZ, 1941b as figs. 1-5.

5 figured specimens 3336 (fig. 1); 3337 (fig. 2); 3338 (fig. 3); 3339 (fig. 4); 3340 (fig. 5); Oligocene; Rott, Rheinland, Germany.

Order NEUROPTERA
Family CHRYSOPIDAE

Notochrysa [sic *Nothochrysa*] *praeclara*

STATZ, 1936a:215, figs. 3-4.

Holotype 3341; Oligocene; Rott, Rheinland, Germany.

Family MYRMELEONTIDAE

Dendroleon septemmontanus

STATZ, 1936a:212, figs. 1-2.

Holotype 3342; Oligocene; Rott, Rheinland, Germany.

Order MECOPTERA
Family PANORPIDAE

Panorpa gracilis

STATZ, 1936a:216, figs. 5-7.

Holotype 3343; Oligocene; Rott, Rheinland, Germany.

Panorpa maculatuosa

STATZ, 1936a:220, figs. 10-11.

Holotype 3344; Oligocene; Rott, Rheinland, Germany.

Panorpa rottensis

STATZ, 1936a:218.

Holotype 3345; Oligocene; Rott, Rheinland, Germany.

NOTE: The figured half of the holotype (figs. 8-9) is in the Kastenholz collection.

Order TRICHOPTERA
Family PHRYGANEIDAE

Neuronia excellenta

STATZ, 1936a:221.

Holotype 3346; Oligocene; Rott, Rheinland, Germany.

NOTE: The figured half of the holotype (figs. 12-13) is in the Kastenholz collection.

Phryganea pupa Nr. 1

STATZ, 1936a as fig. 14.

Figured specimen 3347 (MISSING); Oligocene; Rott, Rheinland, Germany.

Phryganea pupa Nr. 2

STATZ, 1936a as fig. 16.

Figured specimen 3348; Oligocene; Rott, Rheinland, Germany.

Phryganea pupa Nr. 3

STATZ, 1936a as fig. 19.

Figured specimen 3349; Oligocene; Rott, Rheinland, Germany.

Phryganea elegantula Meunier, 1920

STATZ, 1936a as figs. 21-22.

Figured specimen 3350; Oligocene; Rott, Rheinland, Germany.

Phryganea lithophila

STATZ, 1936a:233, figs. 23-24.

2 syntypes 3351 (unfigured); 3352 (unfigured); Oligocene; Rott, Rheinland, Germany.

NOTE: According to the label with the specimen (LACM 3351) it is the counterplate to the figured specimen. The figured portion is missing. Statz made no mention of more than one specimen in the type lot, but I consider a second specimen labeled as this species in the collection (LACM 3352) to be an additional syntype.

Phryganea meunieri

Statz, 1936a:236.

Holotype 3353; Oligocene; Rott, Rheinland, Germany.

NOTE: The figured plate (figs. 27-28) is in the Kastenholz collection. Our specimen is the counterplate.

Phryganea submersa

STATZ, 1936a:235, figs. 25-26.

Holotype 3354; Oligocene; Rott, Rheinland, Germany.

Order LEPIDOPTERA
Family HEPIALIDAE

**Protohepialus comstocki*

PIERCE, 1945b:5, pl. 3-4.

Holotype 3072; Upper Miocene; Puente Hills, SE of Puente, Los Angeles County, California.

Order DIPTERA
Family ANTHOMYZIDAE

Anthomyza ? rhenana

STATZ, 1940b: 150, pl. 26, fig. 85.

2 syntypes 3355 (pl. 22, fig. 85); 3356 (unfigured); Oligocene; Rott, Rheinland, Germany.

Family BIBIONIDAE

Bibio ♂ Nr. 2

STATZ, 1943 as pl. 4, fig. 36 and pl. 12, fig. 95.

Figured specimen 3357; Oligocene; Rott, Rheinland, Germany.

Bibio ♂ Nr. 3

STATZ, 1943 as pl. 4, fig. 37, and pl. 12, fig. 94.

Figured specimen 3358; Oligocene; Rott, Rheinland, Germany.

Bibio ♂ Nr. 4

STATZ, 1943 as pl. 4, fig. 38 and pl. 12, fig. 96.

Figured specimen 3359; Oligocene; Rott, Rheinland, Germany.

Bibio ♂ Nr. 5

STATZ, 1943 as pl. 4, fig. 39 and pl. 12, fig. 97.

Figured specimen 3360; Oligocene; Rott, Rheinland, Germany.

Bibio ♂ Nr. 6

STATZ, 1943 as pl. 4, fig. 40 and pl. 12, fig. 98.

Figured specimen 3361 (MISSING); Oligocene; Rott, Rheinland, Germany.

Bibio aërosa

STATZ, 1943: 50, pl. 4, fig. 32; pl. 11, fig. 91.

Holotype 3362; Oligocene; Rott, Rheinland, Germany.

Bibio auripes

STATZ, 1943: 51, pl. 4, fig. 34; pl. 11, fig. 92.

Holotype 3363; Oligocene; Rott, Rheinland, Germany.

Bibio comosella

STATZ, 1943: 47, pl. 11, fig. 87.

2 syntypes 3364 (pl. 11, fig. 87); 3365 (unfigured); Oligocene; Rott, Rheinland, Germany.

Bibio compta

STATZ, 1943: 52, pl. 4, fig. 35; pl. 12, fig. 93.

Holotype 3366; Oligocene; Rott, Rheinland, Germany.

Bibio rohli

STATZ, 1943: 46, pl. 11, fig. 86.

Holotype 3367; Oligocene; Rott, Rheinland, Germany.

NOTE: The figured plate is in the Kastenholz collection. Our specimen is the counterplate.

Bibio rottensis

STATZ, 1943: 48, pl. 11, fig. 88.

6 syntypes 3368 (pl. 11, fig. 88); 3369-3373 (unfigured); Oligocene; Rott, Rheinland, Germany.

NOTE: There are 4 additional syntypes in the Kastenholz collection and 1 in the Siegburger collection.

Bibio spadicea

STATZ, 1943: 51, pl. 4, fig. 33; pl. 11, fig. 90.

Holotype 3374; Oligocene; Rott, Rheinland, Germany.

Bibio vulpina

STATZ, 1943: 49, pl. 4, fig. 31; pl. 11, fig. 89.

Holotype 3375; Oligocene; Rott, Rheinland, Germany.

Penthetria ♂ Nr. 1

STATZ, 1943 as pl. 10, fig. 81.

Figured specimen 3376; Oligocene; Rott, Rheinland, Germany.

Penthetria ♂ Nr. 2

STATZ, 1943 as pl. 10, fig. 85.

Figured specimen 3377; Oligocene; Rott, Rheinland, Germany.

Penthetria sp.

STATZ, 1943 as pl. 3, fig. 25.

Figured specimen 3378; Oligocene; Rott, Rheinland, Germany.

Penthetria aestimata

STATZ, 1943:39, pl. 10, figs. 79-80.

3 syntypes 3379 (pl. 10, fig. 79); 3380 (pl. 10, fig. 80); 3381 (unfigured); Oligocene; Rott, Rheinland, Germany.

NOTE: The counterplate to LACM 3379 is in the Kastenholz collection.

Penthetria nigra

STATZ, 1943:38, pl. 3, fig. 20.

Holotype 3382; Oligocene; Rott, Rheinland, Germany.

Penthetria rottensis

STATZ, 1943:40, pl. 3, fig. 27; pl. 10, fig. 83.

Holotype 3383; Oligocene; Rott, Rheinland, Germany.

Penthetria scita

STATZ, 1943:40, pl. 3, fig. 23; pl. 10, fig. 84.

Holotype 3384; Oligocene; Rott, Rheinland, Germany.

Penthetria tropica

STATZ, 1943:39, pl. 3, fig. 22; pl. 10, fig. 82.

Holotype 3385; Oligocene; Rott, Rheinland, Germany.

Plecia

STATZ, 1942a as fig. 5.

Figured specimen 3386 (MISSING); Oligocene; Rott, Rheinland, Germany.

Plecia ♂ Nr. 1

STATZ, 1943 as pl. 8, fig. 67.

Figured specimen 3387; Oligocene; Rott, Rheinland, Germany.

Plecia ♂ Nr. 2

STATZ, 1943 as pl. 1, fig. 10; pl. 8, fig. 70.

Figured specimen 3388; Oligocene; Rott, Rheinland, Germany.

Plecia ♂ Nr. 3

STATZ, 1943 as pl. 8, fig. 68.

Figured specimen 3389; Oligocene; Rott, Rheinland, Germany.

Plecia ♂ Nr. 4

STATZ, 1943 as pl. 1, fig. 11; pl. 8, fig. 69.

Figured specimen 3390; Oligocene; Rott, Rheinland, Germany.

Plecia ♂ Nr. 5

STATZ, 1943 as pl. 1, fig. 12; pl. 8, fig. 72.

Figured specimen 3391; Oligocene; Rott, Rheinland, Germany.

Plecia ♂ Nr. 6

STATZ, 1943 as pl. 1, fig. 13; pl. 8, fig. 71.

Figured specimen 3392; Oligocene; Rott, Rheinland, Germany.

Plecia ♂ Nr. 7

STATZ, 1943 as pl. 2, fig. 14; pl. 9, fig. 73.

Figured specimen 3393; Oligocene; Rott, Rheinland, Germany.

Plecia ♂ Nr. 10

STATZ, 1943 as pl. 2, fig. 15; pl. 9, fig. 74.

Figured specimen 3394; Oligocene; Rott, Rheinland, Germany.

Plecia ♂ Nr. 12

STATZ, 1943 as pl. 2, fig. 18; pl. 9, fig. 75.

Figured specimen 3395; Oligocene; Rott, Rheinland, Germany.

Plecia ♂ Nr. 13

STATZ, 1943 as pl. 2, fig. 19; pl. 9, fig. 78.

Figured specimen 3396; Oligocene; Rott, Rheinland, Germany.

Plecia ♂ Nr. 14

STATZ, 1943 as pl. 2, fig. 17; pl. 9, fig. 77.

Figured specimen 3397; Oligocene; Rott, Rheinland, Germany.

Plecia ♂ Nr. 15

STATZ, 1943 as pl. 2, fig. 16; pl. 9, fig. 76.

Figured specimen 3398; Oligocene; Rott, Rheinland, Germany.

Plecia sp.

STATZ, 1942a as fig. 4.

STATZ, 1943 as pl. 7, fig. 61.

2 figured specimens 3399 (Statz, 1942a, fig. 4; MISSING); 3400 (Statz, 1943, pl. 7, fig. 61); Oligocene; Rott, Rheinland, Germany.

Plecia exigua

STATZ, 1943:26, pl. 7, fig. 63.

2 syntypes 3401 (pl. 7, fig. 63); 3402 (unfigured); Oligocene; Rott, Rheinland, Germany.

Plecia exposita (Heyden, 1865)

STATZ, 1943 as pl. 7, fig. 59.

Figured specimen 3404; Oligocene; Rott, Rheinland, Germany.

Plecia grossa (Heyden, 1865)

STATZ, 1943 as pl. 7, fig. 58.

Figured specimen 3404; Oligocene; Rott, Rheinland, Germany.

Plecia grandaeva (Heyden, 1865)

STATZ, 1943 as pl. 7, fig. 65.

Figured specimen 3405; Oligocene; Rott, Rheinland, Germany.

Plecia hypogaea (Heyden, 1865)

STATZ, 1943 as pl. 6, fig. 51.

Figured specimen 3406; Oligocene; Rott, Rheinland, Germany.

Plecia imperialis

STATZ, 1943:13, pl. 1, fig. 3; pl. 5, fig. 48.

Holotype 3407; Oligocene; Rott, Rheinland, Germany.

Plecia lapidaria Heyden, 1865

STATZ, 1943 as pl. 7, fig. 60.

Figured specimen 3408; Oligocene; Rott, Rheinland, Germany.

Plecia lapidaria nigra

STATZ, 1943:25, pl. 7, fig. 64.

4 syntypes 3409 (pl. 7, fig. 64); 3410-3412 (unfigured); Oligocene; Rott, Rheinland, Germany.

Plecia luctuosa (Heyden, 1865)

STATZ, 1943 as pl. 6, fig. 53.

Figured specimen 3413; Oligocene; Rott, Rheinland, Germany.

Plecia pennata

STATZ, 1943:19, pl. 1, fig. 4; pl. 6, fig. 57.

Holotype 3414; Oligocene; Rott, Rheinland, Germany.

Plecia philippi

STATZ, 1943:10, pl. 1, fig. 1; pl. 5, fig. 50.

Holotype 3415; Oligocene; Rott, Rheinland, Germany.

Plecia pinguis (Heyden, 1865)

STATZ, 1943 as pl. 6, fig. 56.

Figured specimen 3416; Oligocene; Rott, Rheinland, Germany.

Plecia proserpina (Heyden, 1865)

STATZ, 1943 as pl. 6, fig. 55.

Figured specimen 3417; Oligocene; Rott, Rheinland, Germany.

Plecia rhenana Heyden, 1865

STATZ, 1943 as pl. 5, figs. 45-46.

FURST, 1959, p. 16, top two figures, unnumbered.

Figured specimen 3418; Oligocene; Rott, Rheinland, Germany.

Plecia satyrus

STATZ, 1943:12, pl. 5, fig. 47.

6 syntypes 3419 (pl. 5, fig. 47); 3420-3424 (unfigured, 3423 and 3424 MISSING); Oligocene; Rott, Rheinland, Germany.

Plecia sturmii

STATZ, 1943:20, pl. 1, fig. 5; pl. 6, fig. 54.

Holotype 3425; Oligocene; Rott, Rheinland, Germany.

Plecia stygia (Heyden, 1865)

STATZ, 1942a as fig. 6.

STATZ, 1943 as pl. 7, fig. 62.

Figured specimen 3426; Oligocene; Rott, Rheinland, Germany.

Plecia veterana (Heyden, 1865)

STATZ, 1943 as pl. 5, fig. 49.

Figured specimen 3427; Oligocene; Rott, Rheinland, Germany.

Plecia vulpina

STATZ, 1943:27, pl. 7, fig. 66.

2 syntypes 3428 (pl. 7, fig. 66); 3429 (unfigured); Oligocene; Rott, Rheinland, Germany.

Plecia winnertzi (Heyden, 1865)

STATZ, 1943 as pl. 6, fig. 52.

Figured specimen 3430; Oligocene; Rott, Rheinland, Germany.

Family BOMBYIIDAE

Spongostylum sp.

STATZ, 1940b as pl. 19, fig. 11; pl. 23, fig. 62.

Figured specimen 3431; Oligocene; Rott, Rheinland, Germany.

Usia atra

STATZ, 1940b:131, pl. 19, fig. 10; pl. 23, fig. 61.

Holotype 3432; Oligocene; Rott, Rheinland, Germany.

Family CALLIPHORIDAE

**Protochrysomya howardae*

PIERCE, 1945d:8, pl. 6.

? 11 syntypes 3073-3083; Pleistocene; Pit 3, Rancho La Brea, Los Angeles, Los Angeles County, California.

NOTE: There may be more fragments or whole specimens imbedded in the bone matrix.

Family CERATOPOGONIDAE

Atrichopogon brunnescens

STATZ, 1944c:141, pl. 8, fig. 57.

9 syntypes 3433 (pl. 8, fig. 57); 3434-3441 (unfigured; 3441 MISSING); Oligocene; Rott, Rheinland, Germany.

Bezzia ? longipennis

STATZ, 1944c: 151, pl. 7, fig. 55; pl. 10, fig. 80.

Holotype 3442; Oligocene; Rott, Rheinland, Germany.

"Ceratopogon" sp.

STATZ, 1941b as fig. 11.

STATZ, 1944c as pl. 10, figs. 82-83.

3 figured specimens 3443 (Statz 1941b, fig. 11, MISSING); 3444 (Statz, 1944c, pl. 10, fig. 82); 3445 (Statz 1944c, pl. 10, fig. 83); Oligocene; Rott, Rheinland, Germany.

"Ceratopogon" pupa Nr. 1

STATZ, 1944c as pl. 7, fig. 54; pl. 10, fig. 84, figs. 86-87.

4 figured specimens 3446 (pl. 7, fig. 54); 3447 (pl. 10, fig. 85); 3448 (pl. 10, fig. 86); 3449 (pl. 10, fig. 87); Oligocene; Rott, Rheinland, Germany.

"Ceratopogon" pupa Nr. 2

STATZ, 1944c as pl. 10, fig. 88.

Figured specimen 3450; Oligocene; Rott, Rheinland, Germany.

"Ceratopogon" pupa Nr. 3

STATZ, 1944c as pl. 10, fig. 89.

Figured specimen 3451; Oligocene; Rott, Rheinland, Germany.

"Ceratopogon" pupa Nr. 4

STATZ, 1944c as pl. 11, fig. 90.

Figured specimen 3452; Oligocene; Rott, Rheinland, Germany.

"Ceratopogon" pupa Nr. 5

STATZ, 1944c as pl. 11, fig. 91.

Figured specimen 3453; Oligocene; Rott, Rheinland, Germany.

"Ceratopogon" pupa Nr. 6

STATZ, 1944c as pl. 11, fig. 92.

Figured specimen 3454; Oligocene; Rott, Rheinland, Germany.

"Ceratopogon" pupa Nr. 7

STATZ, 1944c as pl. 11, figs. 93-95.

3 figured specimens 3455 (fig. 93); 3456 (fig. 94); 3457 (fig. 95); Oligocene; Rott, Rheinland, Germany.

"Ceratopogon" pupa Nr. 8

STATZ, 1944c as pl. 11, fig. 96.

Figured specimen 3458; Oligocene; Rott, Rheinland, Germany.

"Ceratopogon" pupa Nr. 9

STATZ, 1944c as pl. 11, fig. 97.

Figured specimen 3459; Oligocene; Rott, Rheinland, Germany.

"Ceratopogon" pupa Nr. 10

STATZ, 1944c as pl. 11, fig. 98.

Figured specimen 3460; Oligocene; Rott, Rheinland, Germany.

"Ceratopogon" pupa Nr. 11

STATZ, 1944c as pl. 11, fig. 99.

Figured specimen 3461; Oligocene; Rott, Rheinland, Germany.

"Ceratopogon" pupa Nr. 12

STATZ, 1944c as pl. 11, fig. 100.

Figured specimen 3462; Oligocene; Rott, Rheinland, Germany.

"Ceratopogon" pupa Nr. 13

STATZ, 1944c as pl. 11, fig. 101.

Figured specimen 3463; Oligocene; Rott, Rheinland, Germany.

Culicoides sp.

STATZ, 1941b as fig. 6.

Figured specimen 3464 (MISSING); Oligocene; Rott, Rheinland, Germany.

Culicoides abbreviatipennis

STATZ, 1944c:142, pl. 8, fig. 59.

7 syntypes 3465 (pl. 8, fig. 59); 3466-3471 (unfigured; 3471 MISSING); Oligocene; Rott, Rheinland, Germany.

Culicoides ? abdominalis

STATZ, 1944c:145, pl. 8, fig. 66.

3 syntypes 3472 (pl. 8, fig. 67); 3473-3474 (unfigured); Oligocene; Rott, Rheinland, Germany.

Culicoides ? atratus

STATZ, 1944c:147, pl. 9, fig. 69.

Holotype 3475; Oligocene; Rott, Rheinland, Germany.

Culicoides austerus

STATZ, 1944c:144, pl. 7, figs. 48-49; pl. 8, figs. 63-64.

9 syntypes 3476 (pl. 7, fig. 38; pl. 8, fig. 63); 3477 (pl. 7, fig. 49; pl. 8, fig. 64); 3478-3484 (unfigured); Oligocene; Rott, Rheinland, Germany.

Culicoides bicolor

STATZ, 1944c:146, pl. 8, fig. 68; pl. 9, fig. 70.

8 syntypes 3485 (pl. 8, fig. 68); 3486 (pl. 9, fig. 70); 3487-3492 (unfigured); 3489-3492 (MISSING); Oligocene; Rott, Rheinland, Germany.

Culicoides elongatulus

STATZ, 1944c:143, pl. 8, figs. 60 and 62.

11 syntypes 3493 (fig. 60); 3494 (fig. 62); 3495-3503 (unfigured); Oligocene; Rott, Rheinland, Germany.

Culicoides ? gracilior

STATZ, 1944c:143, pl. 8, fig. 61.

3 syntypes 3504 (pl. 8, fig. 61); 3505 (unfigured); 3506 (unfigured; MISSING); Oligocene; Rott, Rheinland, Germany.

Culicoides jucundus

STATZ, 1941b as fig. 8 (*nomen nudum*).

STATZ, 1944c:147, pl. 9, figs. 72-74.

4 syntypes 3507 (Statz 1941b, fig. 8; Statz 1944c, pl. 9, figs. 72-73); 3508 (Statz, 1944c, pl. 9, fig. 74); 3509 (unfigured); 3510 (unfigured; MISSING); Oligocene; Rott, Rheinland, Germany.

NOTE: In 1941 Statz figured a specimen with the name *Culicoides jucundus* with no accompanying description invalidating his later use of the name in 1944.

Culicoides liliputanus

STATZ, 1944c:142, pl. 8, fig. 58.

3 syntypes 3511 (pl. 8, fig. 58); 3512 and 3513 (unfigured); Oligocene; Rott, Rheinland, Germany.

Culicoides obesus

STATZ, 1944c:145, pl. 8, fig. 67.

Holotype 3514; Oligocene; Rott, Rheinland, Germany.

Culicoides obscuratus

STATZ, 1944c:144, pl. 8, fig. 65.

9 syntypes 3515 (pl. 8, fig. 65); 3516-3523 (unfigured; 3522 and 3523 MISSING); Oligocene; Rott, Rheinland, Germany.

Culicoides tenuipennis

STATZ, 1944c:147, pl. 7, fig. 50; pl. 9, fig. 71.

Holotype 3524; Oligocene; Rott, Rheinland, Germany.

Serromyia sp.

STATZ, 1944c as pl. 9, fig 75.

Figured specimen 3525; Oligocene; Rott, Rheinland, Germany.

Serromyia austera

STATZ, 1941b as fig. 10 (*nomen nudum*).

Holotype 3526; Oligocene; Rott, Rheinland, Germany.

NOTE: In 1941 Statz figured a specimen with the name *Serromyia austera* with no accompanying description invalidating his later use of the name in 1944.

Serromyia colorata

STATZ, 1944c: 150, pl. 9, fig. 78.

Holotype 3527; Oligocene; Rott, Rheinland, Germany.

Serromyia spinofemorata

STATZ, 1941b as fig. 9 (*nomen nudum*).

STATZ, 1944c: 151, pl. 10, fig. 81.

Holotype 3528; Oligocene; Rott, Rheinland, Germany.

NOTE: In 1941 Statz figured a specimen with the name *Serromyia spinofemorata* with no accompanying description invalidating his later use of the name in 1944.

Stilobezzia goetghebueri

STATZ, 1944c: 148, pl. 7, fig. 52; pl. 9, fig. 77.

Holotype 3529; Oligocene; Rott, Rheinland, Germany.

Stilobezzia veterana (Meunier, 1920)

STATZ, 1941b as fig. 7.

STATZ, 1944c as pl. 9, fig. 76.

Figured specimen 3530 (MISSING); Oligocene; Rott, Rheinland, Germany.

Family CHIRONOMIDAE

"Orthocladius" ♂ Nr. 1

STATZ, 1944c as pl. 5, figs. 35-36.

2 figured specimens 3531 (pl. 5, fig. 35); 3532 (pl. 5, fig. 36; MISSING);

Oligocene; Rott, Rheinland, Germany.

"Orthocladius" ♂ Nr. 2

STATZ, 1944c as pl. 5, fig. 37.

Figured specimen 3533; Oligocene; Rott, Rheinland, Germany.

"Orthocladius" ♂ Nr. 3

STATZ, 1944c as pl. 5, fig. 38.

Figured specimen 3534; Oligocene; Rott, Rheinland, Germany.

"Orthocladius" ♂ Nr. 4

STATZ, 1944c as pl. 6, fig. 39.

Figured specimen 3535; Oligocene; Rott, Rheinland, Germany.

Pelopia ? sp.

STATZ, 1944c as pl. 5, fig. 32.

Figured specimen 3536; Oligocene; Rott, Rheinland, Germany.

Pelopia dorminans (Heyden, 1870)

STATZ, 1944c as pl. 3, figs. 16-21.

6 figured specimens 3537 (fig. 16); 3538 (fig. 17); 3539 (fig. 18); 3540 (fig. 19); 3541 (fig. 20); 3542 (fig. 21); Oligocene; Rott, Rheinland, Germany.

Pelopia ? *obscura*

STATZ, 1944c: 129, pl. 4, figs. 28-29.

10 syntypes 3543 (fig. 28); 3544 (fig. 29); 3545-3552 (unfigured); Oligocene; Rott, Rheinland, Germany.

Pelopia pagasti

STATZ, 1944c: 130, pl. 5 figs. 30-31.

4 syntypes 3553 (fig. 30); 3554 (fig. 31); 3555-3556 (unfigured); Oligocene; Rott, Rheinland, Germany.

Pelopia ? palaemon (Heyden, 1870)

STATZ, 1944c as pl. 5, figs. 33-34.

Figured specimen 3557; Oligocene; Rott, Rheinland, Germany.

Pelopia thienemanni

STATZ, 1944c:128, pl. 4, figs. 22-24 and 27.

37 syntypes 3558 (fig. 22); 3559 (fig. 23); 3560 (fig. 24); 3561 (fig. 27); 3562-3594 (unfigured); Oligocene; Rott, Rheinland, Germany.

Pelopiina (pupa)

STATZ, 1944c as pl. 6, figs. 40-45.

6 figured specimens 3595 (fig. 40); 3596 (fig. 41); 3597 (fig. 42); 3598 (fig. 43); 3599 (fig. 44); 3600 (fig. 45, MISSING); Oligocene; Rott, Rheinland, Germany.

Pelopiina (exuvia)

STATZ, 1944c as pl. 6, fig. 46.

Figured specimen 3601; Oligocene; Rott, Rheinland, Germany.

Procladius ? ♂ Nr. 1

STATZ, 1944c as pl. 2, figs. 7-13.

7 figured specimens 3602 (fig. 7); 3603 (fig. 8, MISSING); 3604 (fig. 9, MISSING); 3605 (fig. 10); 3606 (fig. 11); 3607 (fig. 12, MISSING); 3608 (fig. 13); Oligocene; Rott, Rheinland, Germany.

Procladius ♂ Nr. 2

STATZ, 1944c as pl. 3, figs. 14-15.

2 figured specimens 3609 (fig. 14); 3610 (fig. 15); Oligocene; Rott, Rheinland, Germany.

Family CHLOROPIDAE

"Chlorops" anthracinus

STATZ, 1940b:153, pl. 22, fig. 48; pl. 27, fig. 92.

Holotype 3611; Oligocene; Rott, Rheinland, Germany.

"Oscinella" dormescens

STATZ, 1940b:153, pl. 22, fig. 49.

2 syntypes 3612 (pl. 22, fig. 49); 3613 (unfigured); Oligocene; Rott, Rheinland, Germany.

Family CLUSIIDAE

Clusiodes ? petreficata

STATZ, 1940a:150, pl. 22, fig. 42.

Holotype 3614; Oligocene; Rott, Rheinland, Germany.

Family CULICIDAE

Anopheles ? rottensis

STATZ, 1944b:109, pl. 2, fig. 19; pl. 5, fig. 38.

Holotype 3615; Oligocene; Rott, Rheinland, Germany.

*Mansonia martinii*STATZ, 1941b as fig. 13 (*nomen nudum*).

STATZ, 1944b:110, pl. 2, fig. 17; pl. 5, fig. 37.

Holotype 3616; Oligocene; Rott, Rheinland, Germany.

NOTE: In 1941 Statz figured a specimen with the name *Mansonia martinii* with no accompanying description invalidating his later use of the name in 1944.

Mansonia varivestita

STATZ, 1941b as fig. 14 (*nomen nudum*).

STATZ, 1944b:111.

1 syntype 3617 (unfigured); Oligocene; Rott, Rheinland, Germany.

NOTE 1: In 1941 Statz figured a specimen with the name *Mansonia varivestita* with no accompanying description invalidating his later use of the name in 1944.

NOTE 2: There is a figured syntype (Statz, 1941b, fig. 14; Statz, 1944b, pl. 2, fig. 18; pl. 5, fig. 36) in the Kastenholz collection.

Family DOLICHOPODIDAE

"Dolichopus" minutus

STATZ, 1940b:136, pl. 20, fig. 17; pl. 25, fig. 70.

Holotype 3618; Oligocene; Rott, Rheinland, Germany.

NOTE: The counterplate is in the Kastenholz collection.

"Dolichopus" scitus

STATZ, 1940b:136, pl. 20, fig. 18; pl. 24, fig. 68.

Holotype 3619; Oligocene; Rott, Rheinland, Germany.

Dolichopus spinosus

STATZ, 1940b:135, pl. 20, fig. 16.

Holotype 3620; Oligocene; Rott, Rheinland, Germany.

"Oncopygius" gracilior

STATZ, 1940b:137, pl. 20, fig. 20; pl. 25, fig. 71.

Holotype 3622; Oligocene; Rott, Rheinland, Germany.

"Oncopygius" oligocaenicus

STATZ, 1940b:137, pl. 24, fig. 69.

2 syntypes 3623 (pl. 24, fig. 69); 3624 (unfigured); Oligocene; Rott, Rheinland, Germany.

"Oncopygius" venustus

STATZ, 1940b:138, pl. 20, fig. 21; pl. 25, fig. 72.

Holotype 3621; Oligocene; Rott, Rheinland, Germany.

Sciapus ? amabilis

STATZ, 1940b:139, pl. 20, fig. 23.

Holotype 3625; Oligocene; Rott, Rheinland, Germany.

Sciapus rottensis

STATZ, 1940b:139, pl. 21, fig. 24; pl. 25, fig. 74.

Holotype 3626; Oligocene; Rott, Rheinland, Germany.

Xanthochlorus ? tenellus

STATZ, 1940b:138, pl. 20, fig. 22; pl. 25, fig. 73.

Holotype 3627; Oligocene; Rott, Rheinland, Germany.

NOTE: The unfigured counterplate is in the Kastenholz collection.

Family DROSOPHILIDAE

"Drosophila" blanda

STATZ, 1940b:152, pl. 22, fig. 47; pl. 27, fig. 90.

Holotype 3628; Oligocene; Rott, Rheinland, Germany.

"Drosophila" elegans

STATZ, 1940b:152, pl. 22, fig. 46; pl. 27, fig. 91.

Holotype 3629; Oligocene; Rott, Rheinland, Germany.

Family DRYOMYZIDAE

Dryomyza pelidua

STATZ, 1940b: 146, pl. 22, fig. 35; pl. 26, fig. 81.

Holotype 3630; Oligocene; Rott, Rheinland, Germany.

Family EMPIDIDAE

Empis spinifera

STATZ, 1940b: 132, pl. 20, fig. 12; pl. 24, fig. 65.

FURST, 1959: 16, bottom figure, unnumbered.

Holotype 3631; Oligocene; Rott, Rheinland, Germany.

Empis umbonata

STATZ, 1940b: 133, pl. 24, fig. 66.

2 syntypes 3632 (pl. 24, fig. 66); 3633 (unfigured); Oligocene; Rott, Rheinland, Germany.

Hilara heeri

MEUNIER, 1915b: 12, pl. 4, figs. 12-12a.

2 syntypes 4324 (fig. 12); 4325 (fig. 12a); Oligocene; Aix, Provence, France.

Rhamphomyia fulvescens

STATZ, 1940b: 133, pl. 20, fig. 14.

Holotype 3640; Oligocene; Rott, Rheinland, Germany.

Rhamphomyia latipennata

STATZ, 1940b: 134, text fig. on p. 134.

Holotype 3641; Oligocene; Rott, Rheinland, Germany.

Rhamphomyia rottensis

STATZ, 1940b: 135, pl. 24, fig. 67.

6 syntypes 3634 (pl. 24, fig. 67); 3635-3639 (unfigured); Oligocene; Rott, Rheinland, Germany.

Family HELOMYZIDAE

Leria bauckhorni (Meunier, 1915a)

STATZ, 1940b as pl. 22, figs. 40-41; pl. 27, fig. 87.

2 figured specimens 3642 (pl. 22, fig. 41); 3643 (pl. 27, fig. 87); Oligocene; Rott, Rheinland, Germany.

Family HIPPOBOSCIDAE

Ornithoponus rottensis

STATZ, 1940b: 154, pl. 22, fig. 50; pl. 27, fig. 93.

STATZ, 1941b as figs. 16-17.

MAA, 1966 as figs. 1-2.

Holotype 3644; Oligocene; Rott, Rheinland, Germany.

Family MYCETOPHILIDAE

Asindulum ? pygmaea

STATZ, 1944a: 70, pl. 1, fig. 3; pl. 3, fig. 30.

Holotype 3645; Oligocene; Rott, Rheinland, Germany.

Boletina angustipennis

STATZ, 1944a: 78, pl. 2, fig. 18; pl. 5, fig. 43.

Holotype 3646; Oligocene; Rott, Rheinland, Germany.

Boletina brunnescens

STATZ, 1944a: 78, pl. 2, fig. 17; pl. 5, fig. 42.

Holotype 3647; Oligocene; Rott, Rheinland, Germany.

Boletina graciosa

STATZ, 1944a:79, pl. 2, fig. 19; pl. 5, figs. 44-45.

Holotype 3648; Oligocene; Rott, Rheinland, Germany.

Boletina longicornis

STATZ, 1944a:77, pl. 2, fig. 16; pl. 5, fig. 41.

Holotype 3649; Oligocene; Rott, Rheinland, Germany.

Ditomyia pilosella

STATZ, 1944a:69, pl. 1, fig. 1; pl. 3, fig. 28.

Holotype 3650; Oligocene; Rott, Rheinland, Germany.

Docosia pilosa

STATZ, 1944a:82, pl. 2, fig. 23; pl. 6, fig. 50.

1 syntype 3651; Oligocene; Rott, Rheinland, Germany.

NOTE: The syntype figured as pl. 6, fig. 51 is in the Kastenholz collection.

Dziedzickia ? lepida

STATZ, 1944a:77, pl. 1, fig. 13; pl. 5, fig. 40.

Holotype 3652; Oligocene; Rott, Rheinland, Germany.

Ectrepesthoneura rottensis

STATZ, 1944a:81, pl. 2, fig. 22; pl. 6, fig. 48.

Holotype 3653 (MISSING); Oligocene; Rott, Rheinland, Germany.

NOTE: ? second specimen is in the Kastenholz collection.

Fungivorites problematicum

STATZ, 1944a:85, pl. 7, fig. 56.

Holotype 3654; Oligocene; Rott, Rheinland, Germany.

Leia aberrans

STATZ, 1944a:79, pl. 2, fig. 20; pl. 6, fig. 46.

Holotype 3655; Oligocene; Rott, Rheinland, Germany.

Leia exhumata

STATZ, 1944a:80, pl. 2, fig. 21; pl. 6, fig. 47.

Holotype 3656; Oligocene; Rott, Rheinland, Germany.

Macrocera umbonata

STATZ, 1944a:70, pl. 1, fig. 2; pl. 3, fig. 29.

Holotype 3657; Oligocene; Rott, Rheinland, Germany.

Manota concolor

STATZ, 1944a:71, pl. 1, fig. 4; pl. 3, fig. 32.

Holotype 3658; Oligocene; Rott, Rheinland, Germany.

Mycomyia sp.

STATZ, 1944a as pl. 1, fig. 6; pl. 7, fig. 57.

Figured specimen 3659; Oligocene; Rott, Rheinland, Germany.

Mycomyia fossilis

STATZ, 1944a:73, pl. 1, fig. 7; pl. 3, fig. 33.

Holotype 3660; Oligocene; Rott, Rheinland, Germany.

Mycomyia kuhni

STATZ, 1944a:73, pl. 1, fig. 8; pl. 4, fig. 34.

Holotype 3661; Oligocene; Rott, Rheinland, Germany.

Mycomyia reisingeri

STATZ, 1944a:75, pl. 1, fig. 11; pl. 4, fig. 37.

Holotype 3662; Oligocene; Rott, Rheinland, Germany.

Mycomyia umbonata

STATZ, 1944a:74, pl. 1, fig. 9; pl. 4, fig. 36.

Holotype 3663; Oligocene; Rott, Rheinland, Germany.

Mycomyia unicolor

STATZ, 1944a:71, pl. 1, fig. 5; pl. 3, fig. 31.

Holotype 3664; Oligocene; Rott, Rheinland, Germany.

Phthinia longipoda

STATZ, 1944a:76, pl. 2, fig. 15; pl. 4, fig. 38.

Holotype 3665; Oligocene; Rott, Rheinland, Germany.

Polyxena hastata

STATZ, 1944a:84, pl. 2, fig. 26; pl. 7, fig. 55.

Holotype 3666; Oligocene; Rott, Rheinland, Germany.

Polyxena (Cordyla) rhenana (Meunier, 1923)

STATZ, 1944a as pl. 7, fig. 54.

Figured specimen 3667; Oligocene; Rott, Rheinland, Germany.

Family OPOMYZIDAE

"Opomyza" pelidua

STATZ, 1940b:151, pl. 22, fig. 44; pl. 27, fig. 89.

Holotype 3668; Oligocene; Rott, Rheinland, Germany.

"Opomyza" venusta

STATZ, 1940b:151, pl. 27, fig. 88.

2 syntypes 3669 (pl. 27, fig. 88); 3670 (unfigured); Oligocene; Rott, Rheinland, Germany.

Family PHORIDAE

Phalacrotophora tertiaria

STATZ, 1940b:140, pl. 21, fig. 25; pl. 25, fig. 75.

Holotype 3671; Oligocene; Rott, Rheinland, Germany.

Family PLATYPEZIDAE

Opetia atra

STATZ, 1940b:141, pl. 21, fig. 26.

Holotype 3672; Oligocene; Rott, Rheinland, Germany.

Family RHAGIONIDAE

Chrysopilus stigmaticus

STATZ, 1940b:129, pl. 19, figs. 6-7.

Holotype 3673; Oligocene; Rott, Rheinland, Germany.

Family SCATOPHAGIDAE

Norellisoma setaria

STATZ, 1940b:145, pl. 21, fig. 33.

Holotype 3674; Oligocene; Rott, Rheinland, Germany.

Scopeuma punctata

STATZ, 1940b:146, pl. 22, fig. 34; pl. 26, fig. 80.

Holotype 3675; Oligocene; Rott, Rheinland, Germany.

Family SCIARIDAE

Lycoria ♂ Nr. 3

STATZ, 1944c as pl. 13, fig. 127; pl. 17, fig. 153.

Figured specimen 3676; Oligocene; Rott, Rheinland, Germany.

Lycoria amicula

STATZ, 1944c:176, pl. 17, fig. 152.

4 syntypes 3677 (pl. 17, fig. 152); 3678-3679 (unfigured); 3680 (unfigured; MISSING); Oligocene; Rott, Rheinland, Germany.

Lycoria antennaria

STATZ, 1944c:169, pl. 15, fig. 134.

2 syntypes 3681 (pl. 15, fig. 134); 3682 (unfigured; MISSING); Oligocene; Rott, Rheinland, Germany.

Lycoria aulica

STATZ, 1944c:165, pl. 14, fig. 128.

12 syntypes 3683 (pl. 14, fig. 128); 3684-3694 (unfigured); 3693 and 3694 (MISSING); Oligocene; Rott, Rheinland, Germany.

Lycoria austera

STATZ, 1944c:166, pl. 14, fig. 131.

2 syntypes 3695 (pl. 14, fig. 131); 3696 (unfigured); Oligocene; Rott, Rheinland, Germany.

Lycoria bella

STATZ, 1944c:177, pl. 17, fig. 149.

5 syntypes 3697 (pl. 17, fig. 149); 3698-3701 (unfigured); Oligocene; Rott, Rheinland, Germany.

NOTE: One additional syntype is in the Kastenholz collection.

Lycoria bicolora

STATZ, 1944c:173, pl. 16, fig. 144.

3 syntypes 3702 (pl. 16, fig. 144); 3703-3704 (unfigured); Oligocene; Rott, Rheinland, Germany.

Lycoria compta

STATZ, 1944c:174, pl. 16, fig. 143.

2 syntypes 3705 (pl. 16, fig. 143); 3706 (unfigured); Oligocene; Rott, Rheinland, Germany.

Lycoria cryptocephala

STATZ, 1944c:168, pl. 12, fig. 107; pl. 14, fig. 133.

Holotype 3707; Oligocene; Rott, Rheinland, Germany.

Lycoria exilis

STATZ, 1944c:178, pl. 13, fig. 126; pl. 17, fig. 150.

Holotype 3708; Oligocene; Rott, Rheinland, Germany.

Lycoria femoralis

STATZ, 1944c:175, pl. 13, fig. 120; pl. 16, fig. 146.

Holotype 3709; Oligocene; Rott, Rheinland, Germany.

Lycoria gracilentia

STATZ, 1944c:172, pl. 13, fig. 116; pl. 16, fig. 142.

Holotype 3710; (pl. 13, fig. 116; pl. 16, fig. 142); 3 paratypes 3711-3713 (unfigured); Oligocene; Rott, Rheinland, Germany.

Lycoria gracilior

STATZ, 1944c:176, pl. 13, fig. 123; pl. 17, fig. 147.

Holotype 3714; Oligocene; Rott, Rheinland, Germany.

Lycoria jucunda

STATZ, 1944c:170, pl. 15, fig. 140.

3 syntypes 3715 (pl. 15, fig. 140); 3716-3717 (unfigured); Oligocene; Rott, Rheinland, Germany.

Lycoria laticornis

STATZ, 1944c:169, pl. 12, fig. 110; pl. 15, fig. 137.

Holotype 3718; Oligocene; Rott, Rheinland, Germany.

Lycoria lengersdorfi

STATZ, 1944c:172, pl. 16, fig. 141.

3 syntypes 3719 (pl. 16, fig. 141); 3720-3721 (unfigured); Oligocene; Rott, Rheinland, Germany.

Lycoria longa

STATZ, 1944c:168.

2 paratypes 3722-3723 (unfigured); Oligocene; Rott, Rheinland, Germany.

NOTE: The holotype (pl. 15, fig. 135) is in the Kastenholz collection.

Lycoria lugens

STATZ, 1944c:173, pl. 13, fig. 117; pl. 16, fig. 145.

Holotype 3724; Oligocene; Rott, Rheinland, Germany.

Lycoria melanopa

STATZ, 1944c:171, pl. 13, fig. 114; pl. 15, fig. 138.

Holotype 3725; Oligocene; Rott, Rheinland, Germany.

Lycoria minuscula

STATZ, 1944c:177, pl. 13, fig. 125; pl. 17, fig. 151.

Holotype 3726; Oligocene; Rott, Rheinland, Germany.

Lycoria ovalipennata

STATZ, 1944c:171, pl. 12, fig. 113; pl. 15, fig. 139.

Holotype 3727; Oligocene; Rott, Rheinland, Germany.

Lycoria pelidua

STATZ, 1944c:167, pl. 14, fig. 130.

9 syntypes 3728 (pl. 14, fig. 130); 3729-3736 (unfigured); Oligocene; Rott, Rheinland, Germany.

Lycoria pennata

STATZ, 1944c:167, pl. 14, fig. 132.

2 syntypes 3737 (pl. 14, fig. 132); 3738 (unfigured); Oligocene; Rott, Rheinland, Germany.

Lycoria thoracica

STATZ, 1944c:175, pl. 13, fig. 121; pl. 17, fig. 148.

Holotype 3739; Oligocene; Rott, Rheinland, Germany.

Lycoria weylandi

STATZ, 1944c:165, pl. 14, fig. 129.

1 syntype 3740 (pl. 12, fig. 129); Oligocene; Rott, Rheinland, Germany.

NOTE: An additional syntype is in the Heimatmuseum der Stadt Siegburg.

Family SEPSIDAE

Sepsis ? atra

STATZ, 1940b:147, pl. 22, fig. 37; pl. 26, fig. 83.

Holotype 3741; Oligocene; Rott, Rheinland, Germany.

Sepsis ? bicolorata

STATZ, 1940b:147, pl. 22, fig. 36; pl. 26, fig. 82.

Holotype 3742; Oligocene; Rott, Rheinland, Germany.

Sepsis ? ignobilis

STATZ, 1940b:148, pl. 26, fig. 84.

4 syntypes 3743 (pl. 26, fig. 84); 3744-3746 (unfigured); Oligocene; Rott, Rheinland, Germany.

Family STRATIOMYIIDAE

Eulalia sp. Nr. 1

STATZ, 1940b as pl. 19, fig. 3; pl. 23, figs. 52-54.

4 figured specimens 3747 (pl. 19, fig. 3); 3748 (pl. 23, fig. 52); 3749 (pl. 23, fig. 53); 3750 (pl. 23, fig. 54); Oligocene; Rott, Rheinland, Germany.

Eulalia sp. Nr. 2

STATZ, 1940b as pl. 19, fig. 4; p. 23, figs. 55-56.

3 figured specimens 3751 (pl. 19, fig. 4); 3752 (pl. 23, fig. 55); 3753 (pl. 23, fig. 56); Oligocene; Rott, Rheinland, Germany.

Eulalia sp. Nr. 3

STATZ, 1940b as pl. 23, fig. 57.

Figured specimen 3754; Oligocene; Rott, Rheinland, Germany.

Hermione sp.

STATZ, 1940b as pl. 23, fig. 58.

Figured specimen 3755; Oligocene; Rott, Rheinland, Germany.

Stratiomya sp.

STATZ, 1940b as pl. 19, fig. 2; pl. 23, fig. 51.

2 figured specimens 3756 (pl. 19, fig. 2); 3757 (pl. 23, fig. 51); Oligocene; Rott, Rheinland, Germany.

"Stratiomyia" pentadiscalia

STATZ, 1940b: 124, pl. 19, fig. 1; pl. 23, fig. 59.

Holotype 3758; Oligocene; Rott, Rheinland, Germany.

Family SYRPHIDAE

Chilosia picata

STATZ, 1940b: 141.

Holotype 3759; Oligocene; Rott, Rheinland, Germany.

NOTE: The figured counterplate (pl. 21, fig. 27) is in the Kastenholz collection.

Epistrophe kastenholzi

STATZ, 1940b: 142, pl. 21, fig. 28.

Holotype 3760; Oligocene; Rott, Rheinland, Germany.

"Eristalis" sp.

STATZ, 1940b as pl. 25, fig. 76.

Figured specimen 3761; Oligocene; Rott, Rheinland, Germany.

Myiolepta elisabethae

STATZ, 1940b: 144, pl. 21, fig. 31; pl. 26, fig. 79.

Holotype 3762; Oligocene; Rott, Rheinland, Germany.

Spilomyia sp.

STATZ, 1940b as pl. 21, fig. 30.

Figured specimen 3763; Oligocene; Rott, Rheinland, Germany.

Syrphus aeneus

STATZ, 1940b: 142, pl. 21, fig. 29.

Holotype 3764; Oligocene; Rott, Rheinland, Germany.

NOTE: The counterplate is in the Kastenholz collection.

Temnostoma sacki

STATZ, 1940b: 145, pl. 21, fig. 32; pl. 25, fig. 77.

Holotype 3765; Oligocene; Rott, Rheinland, Germany.

Tropidia sp.

STATZ, 1940b as pl. 26, fig. 78.

Figured specimen 3766; Oligocene; Rott, Rheinland, Germany.

Family TABANIDAE

Tabanus fulvescens

STATZ, 1940b: 130, pl. 19, fig. 8; pl. 24, fig. 63.

STATZ, 1941b as fig. 15.

Holotype 3767; Oligocene; Rott, Rheinland, Germany.

Family THEREVIDAE

Paraclia ? tarsalis

STATZ, 1940b:130, pl. 19, fig. 9; pl. 24, fig. 64.

Holotype 3768; Oligocene; Rott, Rheinland, Germany.

Family TIPULIDAE

Dactylolabis tenuis

STATZ, 1944b:99, pl. 1, fig. 6; pl. 4, fig. 27.

Holotype 3769; Oligocene; Rott, Rheinland, Germany.

Dicranoptycha rottensis

STATZ, 1944b:95, pl. 1, fig. 2; pl. 3, fig. 22.

Holotype 3770; Oligocene; Rott, Rheinland, Germany.

Elephantomyia weigandi

STATZ, 1934b:97, figs. 4-5.

Holotype 3771; Oligocene; Rott, Rheinland, Germany.

Erioptera ? pagasti

STATZ, 1944b:97, pl. 1, fig. 5; pl. 3, fig. 25.

Holotype 3772; Oligocene; Rott, Rheinland, Germany.

Gonomyia munda

STATZ, 1944b:96, pl. 1, fig. 3; pl. 3, fig. 21.

Holotype 3773; Oligocene; Rott, Rheinland, Germany.

Helius tenera

STATZ, 1944b:95, pl. 1, fig. 1; pl. 3, fig. 20.

Holotype 3774; Oligocene; Rott, Rheinland, Germany.

Limnobia antiqua

STATZ, 1934b:98, fig. 7.

Holotype 3775; Oligocene; Rott, Rheinland, Germany.

Limnobia horioni

STATZ, 1934b:98, fig. 6.

Holotype 3776; Oligocene; Rott, Rheinland, Germany.

Limnophila sp. Nr. 1

STATZ, 1944b as pl. 1, fig. 9; pl. 3, fig. 23.

Figured specimen 3777 (MISSING); Oligocene; Rott, Rheinland, Germany.

Limnophila sp. Nr. 2

STATZ, 1944b as pl. 1, fig. 10; pl. 4, fig. 29.

Figured specimen 3778; Oligocene; Rott, Rheinland, Germany.

Limnophila sp. Nr. 3

STATZ, 1944b as pl. 2, fig. 14; pl. 4, fig. 30.

Figured specimen 3779; Oligocene; Rott, Rheinland, Germany.

Limnophila sp. Nr. 4

STATZ, 1944b as pl. 2, fig. 11; pl. 4, fig. 32.

Figured specimens 3780 (MISSING); Oligocene; Rott, Rheinland, Germany.

Limnophila ? pterotrichia

STATZ, 1934b:103, fig. 13.

Holotype 3781; Oligocene; Rott, Rheinland, Germany.

Limnophila robusta

STATZ, 1934b:102, fig. 12.

Holotype 3782; Oligocene; Rott, Rheinland, Germany.

Limnophila umbonata

STATZ, 1944b:99, pl. 1, fig. 7; pl. 4, fig. 28.

Holotype 3783; Oligocene; Rott, Rheinland, Germany.

Limnophila veterana

STATZ, 1934b:102, fig. 11.

Holotype 3784; Oligocene; Rott, Rheinland, Germany.

Rhabdomastix oligocaenica

STATZ, 1944b:98, pl. 1, fig. 8; pl. 4, fig. 26.

Holotype 3785; Oligocene; Rott, Rheinland, Germany.

Tipula sp. Nr. 1

STATZ, 1944b as pl. 2, fig. 16; pl. 5, fig. 34.

Figured specimen 3786; Oligocene; Rott, Rheinland, Germany.

Tipula sp. Nr. 2

STATZ, 1944b as pl. 2, fig. 12; pl. 5, fig. 33.

Figured specimen 3787 (MISSING); Oligocene; Rott, Rheinland, Germany.

Tipula sp. Nr. 3

STATZ, 1944b as pl. 2, fig. 13; pl. 5, fig. 35.

Figured specimen 3788 (MISSING); Oligocene; Rott, Rheinland, Germany.

Tipula bouata

MEUNIER, 1915b:14; pl. 4, fig. 15.

Holotype 4326; Oligocene; Aix, Provence, France.

Tipula maxima

STATZ, 1934b:95, figs. 1-3.

Holotype 3789; Oligocene; Rott, Rheinland, Germany.

Tipula peusi

STATZ, 1944b:101, pl. 2, fig. 15; pl. 4, fig. 31.

Holotype 3790; Oligocene; Rott, Rheinland, Germany.

Ula rottensis

STATZ, 1934b:100, fig. 9.

Holotype 3791; Oligocene; Rott, Rheinland, Germany.

Family TRICHOCERIDAE

Trichocera miocaenica

STATZ, 1934b:100, fig. 10.

Holotype 3792; Oligocene; Rott, Rheinland, Germany.

Family TYLIDAE

Trepidaria ? rottensis

STATZ, 1940b:148, pl. 22, fig. 39; pl. 27, fig. 86.

Holotype 3793 (pl. 22, fig. 39; pl. 27, fig. 86); Paratype 3794 (unfigured); Oligocene; Rott, Rheinland, Germany.

Order COLEOPTERA

Family CARABIDAE

Bembidion (Ochthedromus) davidae

PIERCE, 1944a:7, pl. 1, figs. a-c.

Holotype 2590; Lower Miocene; W bank of the Cuyama River near the junction with Husana Creek, San Luis Obispo County, California.

Bembidion everestae

PIERCE, 1944b:11, pl. 2; pl. 3, figs. a-b.

Holotype 2591; Lower Miocene; near Rosedale, 6 mi W of Bakersfield, Kern County, California.

Elaphrus clairvillei lynni

PIERCE, 1948a:52, pl. 12.

Holotype 2948; Pleistocene; Lynn Creek, north of Vancouver, British Columbia, Canada.

Elaphrus ruscarius foveatus

PIERCE, 1948c:54, pl. 13, figs. 1-3.

Holotype 2949; Pleistocene; asphalt deposit at McKittrick, Kern County, California.

Notiophilus vancouveri

PIERCE, 1950b:5, pl. 2, figs. 1-3.

Holotype 3056; Pleistocene; Lynn Creek, N of Vancouver, British Columbia, Canada.

Family CERAMBYCIDAE

Anaethetis ? magnificus

STATZ, 1938c:176, figs. 5-6.

Holotype 3795; Oligocene; Rott, Rheinland, Germany.

Haplocnemia sophia

STATZ, 1938c:175, fig. 2.

Holotype 3796; Oligocene; Rott, Rheinland, Germany.

Leptura longipennis

STATZ, 1938c:175, fig. 1.

Holotype 3797; Oligocene; Rott, Rheinland, Germany.

Saperda ? petrorum

STATZ, 1938c:177, fig. 3.

Holotype 3798; Oligocene; Rott, Rheinland, Germany.

NOTE: The unfigured counterplate is in the Kastenholz collection.

Tetrops rottensis

STATZ, 1938c:178, fig. 4.

Holotype 3799; Oligocene; Rott, Rheinland, Germany.

Family CHRYSOMELIDAE

Donacia (Donacia) cordovae

PIERCE, 1950c:8 (unfigured).

Holotype 2887; 3 paratypes 2888-2890; Pleistocene; Cordova Bay, Vancouver Island, British Columbia, Canada.

Donacia (Donacia) draycoti

PIERCE, 1950c:7 (unfigured).

Holotype 2891; 54 paratypes 2892-2945; Pleistocene; Lynn Creek, N of Vancouver, British Columbia, Canada.

Donacia (Donacia) lynni

PIERCE, 1950c:8 (unfigured).

Holotype 2946; paratype 2947; Oligocene; Lynn Creek, N of Vancouver, British Columbia, Canada.

Family COCCINELLIDAE

Coccinella sp.

FURST, 1959:14, p. 14, top figure, unnumbered.

Figured specimen 3800 (MISSING); Oligocene; Rott, Rheinland, Germany.

Family CURCULIONIDAE

Rhyncolus kathrynae

SLEEPER, 1968:196, figs. 1-2.

Holotype 3084; Pliocene; Sam Swarz Ranch, Fernley, Lyon County, Nevada.

Rhyssematus miocenae

PIERCE, 1965:157, fig. 1.

Holotype 3070; Upper Miocene; Woodcrest Drive, Sherman Oaks, Los Angeles County, California.

Family DRYOPIDAE

*Helmis decoratus*STATZ, 1938b, fig. 26 (both plate and counterplate figured); (*nomen nudum*).

STATZ, 1939:68, pl. 20, figs. 92-94.

Holotype 3801; Oligocene; Rott, Rheinland, Germany.

NOTE: In 1938 Statz figured a specimen with the name *Helmis decoratus* with no accompanying description invalidating his later use of the name in 1944.

Family DYTISCIDAE

Dytiscites sp. (larva)

STATZ, 1939 as pl. 16, fig. 73.

Figured specimen 3802; Oligocene; Rott, Rheinland, Germany.

*Agabus hochi*STATZ, 1938b as fig. 21; (*nomen nudum*).

STATZ, 1939:56, pl. 13, figs. 61-62.

Holotype 3803; Oligocene; Rott, Rheinland, Germany.

NOTE: In 1938 Statz figured a specimen with the name *Agabus hochi* with no accompanying description invalidating his later use of the name in 1944.*Hydroporus* ? *maculatus*

STATZ, 1939:55, pl. 12, fig. 58.

Holotype 3804; Oligocene; Rott, Rheinland, Germany.

Hydroporus multipunctatus

STATZ, 1939:55, pl. 13, figs. 59-60.

Holotype 3805; Oligocene; Rott, Rheinland, Germany.

*Oreodites cryptolineatus*STATZ, 1938b as fig. 20 (2 specimens figured); (*nomen nudum*).

STATZ, 1939:53, pl. 11, figs. 51-54; pl. 12, figs. 55-57.

76 syntypes 3806 (Statz, 1938b, fig. 20, ventral view; Statz, 1939, pl. 12, fig. 56); 3807 (Statz, 1938b, fig. 20, dorsal view); 3808 (Statz, 1939, pl. 11, fig. 51); 3809 (pl. 11, fig. 52); 3810 (pl. 11, fig. 53); 3811 (pl. 11, fig. 54); 3812 (pl. 12, fig. 55); 3813 (pl. 12, fig. 57); 3814-3881 (unfigured); Oligocene; Rott, Rheinland, Germany.

NOTE: In 1938 Statz figured two specimens with the name *Oreodites cryptolineatus* with no accompanying description invalidating his later use of the name in 1944.

Family GYRINIDAE

Palaeogyrinus strigatus Schlechtendal, 1894

STATZ, 1938b as fig. 22.

STATZ, 1939 as pl. 15, figs. 69-72.

5 figured specimens 3882 (Statz, 1938b, fig. 22; MISSING); 3883 (Statz, 1939, pl. 15, figs. 67-68; MISSING); 3884 (Statz, 1939, pl. 15, fig. 69); 3885 (Statz, 1939, pl. 15, fig. 70); 3886 (Statz, 1939, pl. 15, figs. 71-72); Oligocene; Rott, Rheinland, Germany.

Family HYDROPHILIDAE

Berosus capitatus

STATZ, 1939:62, pl. 17, figs. 77-78.

Holotype 3887; Oligocene; Rott, Rheinland, Germany.

Berosus morticinus (Heyden, 1866)

STATZ, 1938b as fig. 24.

STATZ, 1939 as pl. 16, figs. 74 and 76.

3 figured specimens 3888 (Statz, 1938b, fig. 24); 3889 (Statz, 1939, fig. 74);

3890 (Statz, 1939, fig. 76); Oligocene; Rott, Rheinland, Germany.

Cymbiododyta ? austerus

STATZ, 1939:66, pl. 19, fig. 88.

Holotype 3891; Oligocene; Rott, Rheinland, Germany.

Hydrophilus fraternus Heyden, 1859

STATZ, 1939 as pl. 19, figs. 85-87.

2 figured specimens 3892 (fig. 85); 3893 (fig. 86-87); Oligocene; Rott, Rheinland, Germany.

Hydrophilus neptunus (Heyden, 1866)

STATZ, 1939 as pl. 18, figs. 82-84.

2 figured specimens 3894 (figs. 82-83); 3895 (fig. 84); Oligocene; Rott, Rheinland, Germany.

Hydrous ? ebeninus

STATZ, 1939:64.

Syntype 3896 (unfigured); Oligocene; Rott, Rheinland, Germany.

NOTE: There is a figured (pl. 18, fig. 81) syntype in the Kastenholz collection.

Hydrous rottensis

STATZ, 1938b as fig. 23 (both plate and counterplate figured); (*nomen nudum*).

STATZ, 1939:63, pl. 17, figs. 79-80.

Holotype 3897; Oligocene; Rott, Rheinland, Germany.

NOTE: In 1938 Statz figured a specimen with the name *Hydrous rottensis* with an accompanying description invalidating his later use of the name in 1944.

Paracymus excitatus (Heyden, 1866)

STATZ, 1938b as fig. 25.

STATZ, 1939 as pl. 19, fig. 89; pl. 20, figs. 90-91.

4 figured specimens 3898 (Statz, 1938, fig. 25; MISSING); 3899 (Statz, 1939, pl. 19, fig. 89); 3900 (Statz, 1939, pl. 20, fig. 90); 3901 (Statz, 1939, pl. 20, fig. 91); Oligocene; Rott, Rheinland, Germany.

Family LUCANIDAE

**Ceruchites halnei*

STATZ, 1952:5, pl. 1, fig. 4.

Holotype 3902; Oligocene; Rott, Rheinland, Germany.

Family MORDELLIDAE

Mordella indata

STATZ, 1952:3, pl. 1, figs. 1-2.

2 syntypes 3903 (fig. 1); 3904 (fig. 2); Oligocene; Rott, Rheinland, Germany.

Mordella nigrapilosa

STATZ, 1952:4, pl. 1, fig. 3.

Holotype 3905; Oligocene; Rott, Rheinland, Germany.

Family PTILIIDAE

Ptilium tertiarium

HORION in STATZ and HORION, 1937:8, figs. 1-4.

Holotype 3906; Oligocene; Rott, Rheinland, Germany.

Family SCARABAEIDAE

Aphodius helvolus

STATZ, 1952:6, pl. 1, fig. 6.

Holotype 3907; Oligocene; Rott, Rheinland, Germany.

Canthon praticolus vetustus

PIERCE, 1946a:122 (unfigured).

Holotype 2592; paratype 2593; Pleistocene; Pit 81, Rancho La Brea, Los Angeles, Los Angeles County, California.

Canthon simplex antiquus

PIERCE, 1946a:120, pl. 10, figs. 1-3.

Holotype 2594 (pl. 10, figs. 2-3); 4 paratypes 2595 (pl. 10, fig. 1); paratype 2596-2598 (unfigured); Pleistocene; Pit A, Rancho La Brea, Los Angeles, Los Angeles County, California.

Copris pristinus

PIERCE, 1946a:124, pl. 11, figs. 4-9; pl. 13, figs. 18-19.

Holotype 2850 (pl. 11, figs. 4-9); paratype (pl. 13, fig. 19); 39 paratypes, 2850 and 2853-2878 and 4329-4333 from Pit A; and 2851 and 2879-2883 and 4328 from Pit 16; 2884-2886 from Pit 13-183; all Pleistocene; Rancho La Brea, Los Angeles, Los Angeles County, California.

Geotrupes ? sp. a

STATZ, 1952 as pl. 2, fig. 2.

Figured specimen 3908; Oligocene; Rott, Rheinland, Germany.

Geotrupes ? sp. b

STATZ, 1952 as pl. 2, fig. 3.

Figured specimen 3909; Oligocene; Rott, Rheinland, Germany.

Geotrupes rottensis

STATZ, 1952:7, pl. 2, fig. 1.

Holotype 3910; Oligocene; Rott, Rheinland, Germany.

Maladera ? *spinitibialis*

STATZ, 1952:9, pl. 2, fig. 4.

Holotype 3911; Oligocene; Rott, Rheinland, Germany.

Melolontha ? sp.

STATZ, 1952 as pl. 2, fig. 6.

Figured specimen 3912; Oligocene; Rott, Rheinland, Germany.

Onthophagus everestae

PIERCE, 1946a:131, pl. 12, figs. 15-17.

Holotype 3057 (pl. 12, figs. 15-16); paratype 3058 (pl. 12, fig. 17); Pleistocene; Pit 81, Rancho La Brea, Los Angeles, Los Angeles County, California.

Onthophagus mulleri

STATZ, 1952:8, pl. 2, fig. 5.

Holotype 3913; Oligocene; Rott, Rheinland, Germany.

**Palaeocopris labreae*

PIERCE, 1946a:130, pl. 11, figs. 10-13.

Holotype 3059 (figs. 10-11); 4 paratypes 3060 (fig. 12); 3061 (fig. 13); 3062 (fig. 14); 3063 (unfigured); Pleistocene; Pit 81, Rancho La Brea, Los Angeles, Los Angeles County, California.

Serica kanakoffi

PIERCE, 1946b:132, pl. 14, figs. 1-2.

Holotype 3071; Pleistocene; Pit 81, Rancho La Brea, Los Angeles, Los Angeles County, California.

Family SILPHIDAE

Nicrophorus guttulus labreae

PIERCE, 1949:63, pl. 9, fig. 7; pl. 10, fig. 9.

136 syntypes 2950 (pl. 9, fig. 7); 2951 (pl. 10, fig. 9); 2952-2979 and 4334-4375 (unfigured); Pleistocene; 2950-2979 and 4334-4353 from Pit A; 2980-2981 and 4354 from Pit B; 2982-3044 and 4355 from Pit X; 3045 from Pit 28; 3046 from Pit 37; 4356-4361 from Pit 81; 4362-4374 from Pit Bliss 29; 4375 from an unknown pit, all are from Rancho La Brea, Los Angeles, Los Angeles County, California.

Nicrophorus guttulus punctostriatus

PIERCE, 1949:66 (unfigured).

Holotype 3047; Pleistocene; Pit A, Rancho La Brea, Los Angeles, Los Angeles County, California.

Nicrophorus investigator alpha

PIERCE, 1949:67, pl. 10, fig. 13.

5 syntypes 3048 (pl. 10, fig. 13); 3049-3052 (unfigured); Pleistocene; Pit A, Rancho La Brea, Los Angeles, Los Angeles County, California.

Nicrophorus investigator latifrons

PIERCE, 1949:67, pl. 10, fig. 14.

Holotype 3053; Pleistocene; Rancho La Brea, Los Angeles, Los Angeles County, California.

Nicrophorus mckittricki

PIERCE, 1949, pl. 10, fig. 11.

Holotype 3054; Pleistocene; Site 3, McKittrick, Kern County, California.

Nicrophorus obtusiscutellum

PIERCE, 1949: 67, pl. 10, fig. 12.

Holotype 3055; Pleistocene; Pit A, Rancho La Brea, Los Angeles, Los Angeles County, California.

Family TENEBRIONIDAE

Apsena labreae

PIERCE, 1954b:98, pl. 23, figs. 6-7.

Holotype 2588 (pl. 23, figs. 6-7); 2598 paratype (unfigured); Pleistocene; Pit B, Rancho La Brea, Los Angeles, Los Angeles County, California.

Coniontis abdominalis caseyi

PIERCE, 1954c:145 (unfigured).

Holotype 2599; 108 paratypes 2600-2707; Pleistocene; 2599-2620 from Pit A; 2621-2625 from Pit B; 2626-2640 from Pit C; 2641-2663 from Pit X; 2664-2707 from Pit Bliss 29; all are from Rancho La Brea, Los Angeles, Los Angeles County, California.

Coniontis abdominalis fragmans

PIERCE, 1954c:148, pl. 42, fig. 2.

Holotype 2708, Pleistocene; Rancho La Brea, Los Angeles, Los Angeles County, California.

Coniontis abdominalis labreae

PIERCE, 1954c:146, pl. 41, figs. 1-2; pl. 42, figs. 3 and 10-13.

Holotype 2709 (pl. 41, fig. 1); 41 paratypes 2710 (pl. 42, figs. 10-13); 2711-2747; Pleistocene; 2709-2746 from Pit Bliss 29; 2747 from Pit 28; all are from Rancho La Brea, Los Angeles, Los Angeles County, California.

NOTE: I am unable to match the remaining drawings and paratypes.

Coniontis blissi

PIERCE, 1954c:149, pl. 42, fig. 16.

Holotype 2748 (pl. 42, fig. 16); 13 paratypes, 2749-2761; Pleistocene; 2748 and 2759-2761 from Pit Bliss 29; 2749 from Pit A; 2750-2754 from Pit B, 2755-2757 from Pit X; 2758 from Pit 9; all are from Rancho La Brea, Los Angeles, Los Angeles County, California.

Coniontis pectoralis interrupta

PIERCE, 1954c:154, pl. 42, figs. 15-15a.

Holotype 2763 (MISSING); 12 paratypes 2753-2764 (MISSING); Pleistocene; 2753 from Pit A; 2754-2758 from Pit B; 2759-2760 from Pit X; 2761 from Pit 9; 2762-2764 from Pit Bliss 29; all from Rancho La Brea, Los Angeles, Los Angeles County, California.

Coniontis pectoralis paraelliptica

PIERCE, 1954c:153, pl. 42, fig. 7.

Holotype 2775 (pl. 42, fig. 7); 12 paratypes 2776-2787; Pleistocene; Rancho La Brea, Los Angeles, Los Angeles County, California.

Coniontis remnans

PIERCE, 1954c:155, pl. 41, figs. 4-6.

Holotype 2788; Pleistocene; Pit B, Rancho La Brea, Los Angeles, Los Angeles County, California.

Coniontis tristis alpha

PIERCE, 1954c:148, pl. 42, fig. 1.

Holotype 2798 (pl. 42, fig. 1); 56 paratypes 2790-2845; Pleistocene; Rancho La Brea, Los Angeles, Los Angeles County, California.

Coniontis tristis asphalti

PIERCE, 1954c:149, pl. 42, fig. 6.

HOLOTYPE 2846; paratype 2847; Pleistocene; Pit 9, Rancho La Brea, Los Angeles, Los Angeles County, California.

NOTE: I am unable to match the specimens with the drawing.

Coniontis tristis latigula

PIERCE, 1954c:149, pl. 42, fig. 5.

Holotype 2848; paratype 2849; Pleistocene; Pit Bliss 29, Rancho La Brea, Los Angeles, Los Angeles County, California.

NOTE: I am unable to match the specimens with the drawing.

Parasida mckittricki

PIERCE, 1954a:43, pl. 8, figs. 4-5.

Holotype 3064 (pl. 8, figs. 4-5); 5 paratypes 3065-3069 (unfigured); Pleistocene; 3064-3065 from Site 4; 3066-3069 from Site 3; all from McKittrick, Kern County, California.

Order HYMENOPTERA
Family APIDAE

Synapis dormitans (Heyden, 1862)

STATZ, 1931 as fig. 9.

ALFONSUS, 1932:275 (unnumbered figure).

WATSON, 1933:48 (unnumbered figure).

STATZ, 1934a as fig. 2.

STATZ, 1941a:101, 105, 108, 112 (unnumbered figures).

FURST, 1959, pl. 13 (unnumbered figure).

5 figured specimens 3914 (Statz, 1931, fig. 5); 3915 (Statz, 1934a, figs. 1, 5-6; Statz, 1941a:108); 3916 (Statz, 1931, fig. 9; Alfonsus, 1932:275; Watson, 1933:48; Statz, 1934a, fig 2; Statz, 1941a:10; Furst, 1959:10; Furst, 1959:13); 3917 (Statz, 1941a:105; MISSING); 3918 (Statz, 1941a:112; MISSING); Oligocene; Rott, Rheinland, Germany.

Synapis henshawi (Cockerell, 1907)

STATZ, 1934a as figs. 5-6.

STATZ, 1941a:103 (unnumbered).

Figured specimen 3919 (MISSING); Oligocene; Rott, Rheinland, Germany.

Synapis kaschkei

STATZ, 1931:50, figs. 10-11.

STATZ, 1934a as fig. 3.

STATZ, 1941a:109, bottom fig. (unnumbered).

Holotype 3920 (Statz, 1931, fig. 10-11); figured specimen 3921 (Statz, 1934a, fig. 3; 1941a, pl. 109, bottom fig.); Oligocene; Rott, Rheinland, Germany.

Xylocopa friesei

STATZ, 1936b:284, pl. 13, fig. 37.

Holotype 3922; Oligocene; Rott, Rheinland, Germany.

Family BETHYLIDAE

Epyris ? tennellus

STATZ, 1938d:107, pl. 14, fig. 46.

Holotype 3923; Oligocene; Rott, Rheinland, Germany.

Family BRACONIDAE

Alysia latifrons

STATZ, 1936b:279, pl. 9, fig. 27.

Holotype 3924; Oligocene; Rott, Rheinland, Germany.

Apanteles concinna

STATZ, 1938d:83, pl. 8, fig. 8.

Holotype 3925; Oligocene; Rott, Rheinland, Germany.

Apanteles macrophthalmus

STATZ, 1938d:82, pl. 8, fig. 7.

Holotype 3926; Oligocene; Rott, Rheinland, Germany.

Aspicolpus longicornis

STATZ, 1936b:277, pl. 8, fig. 25.

Holotype 3927; Oligocene; Rott, Rheinland, Germany.

Aspilota ? stigmilineata

STATZ, 1938d:88, pl. 9, fig. 16.

Holotype 3928; Oligocene; Rott, Rheinland, Germany.

Blacus crassicapitatus

STATZ, 1938d:81, pl. 7, fig. 5.

Holotype 3929; Oligocene; Rott, Rheinland, Germany.

Cantharoctonus bruesii

STATZ, 1936b:275, pl. 7, fig. 22

Holotype 3930 (MISSING); Oligocene; Rott, Rheinland, Germany.

Clinocentrus rottensis

STATZ, 1936b:276, pl. 8, fig. 23.

Holotype 3931; Oligocene; Rott, Rheinland, Germany.

Doryctes conjectus

STATZ, 1938d:86, pl. 9, fig. 13.

Holotype 3932; Oligocene; Rott, Rheinland, Germany.

Doryctes longulus

STATZ, 1938d:86, pl. 9, fig. 12.

Holotype 3933; Oligocene; Rott, Rheinland, Germany.

Doryctes rotundatus

STATZ, 1938d:85, pl. 8, fig. 11.

Holotype 3934; Oligocene; Rott, Rheinland, Germany.

Hecabolus gladiator

STATZ, 1936b: 274, pl. 7, fig. 20.

Holotype 3935; Oligocene; Rott, Rheinland, Germany.

"Meteoros" longicornis

STATZ, 1938d:81, pl. 8, fig. 6.

Holotype 3936; Oligocene; Rott, Rheinland, Germany.

**Palaeoblacus aculeatus*

STATZ, 1936b:277, pl. 8, fig. 24.

Holotype 3937; Oligocene, Rott, Rheinland, Germany.

Pentapleura ? filicornis

STATZ, 1938d:87, pl. 9, fig. 15.

Holotype 3938; Oligocene; Rott, Rheinland, Germany.

Pentapleura longipennis

STATZ, 1936b:278, pl. 9, fig. 26.

Holotype 3939; Oligocene; Rott, Rheinland, Germany.

"Rhogas" festivus

STATZ, 1938d:87, pl. 9, fig. 14.

Holotype 3940; Oligocene; Rott, Rheinland, Germany.

Spathius longicornis

STATZ, 1938d:84, pl. 8, fig. 10.

Holotype 3941; Oligocene; Rott, Rheinland, Germany.

Spathius ? macroradialis

STATZ, 1938d:84, pl. 8, fig. 9.

Holotype 3942; Oligocene; Rott, Rheinland, Germany.

Spathius pedicularis

STATZ, 1936b:275, pl. 7, fig. 21.

Holotype 3943; Oligocene; Rott, Rheinland, Germany.

Tanycarpa interstitialis

STATZ, 1936b:279, pl. 9, fig. 28.

Holotype 3944; Oligocene; Rott, Rheinland, Germany.

Family DIAPRIIDAE

Diapriites insignicornis

STATZ, 1938d:104, pl. 14, fig. 41.

Holotype 3945; Oligocene; Rott, Rheinland, Germany.

Diapriites minimus

STATZ, 1938d:105, pl. 14, fig. 42.

Holotype 3946; Oligocene; Rott, Rheinland, Germany.

Pantoclis margaritaceus

STATZ, 1938d:103, pl. 13, fig. 39.

Holotype 3947; Oligocene; Rott, Rheinland, Germany.

Family ENCYRTIDAE

"Encyrtus" clavicornis

STATZ, 1938d:102, pl. 13, fig. 37.

Holotype 3948; Oligocene; Rott, Rheinland, Germany.

Family EULOPHIDAE

"Eulophus" elegantulus

STATZ, 1938d:100, pl. 13, fig. 35.

3 syntypes 3949 (pl. 13, fig. 35); 3950-3951 (unfigured); Oligocene; Rott, Rheinland, Germany.

"Eulophus" mundus

STATZ, 1938d:101, pl. 13, fig. 36.

Holotype 3952; Oligocene; Rott, Rheinland, Germany.

Family FIGITIDAE

Figites ? planus

STATZ, 1938d:90, pl. 10, fig. 19.

Holotype 3953; Oligocene; Rott, Rheinland, Germany.

Figites ? rotundatus

STATZ, 1938d:89, pl. 10, fig. 18.

Holotype 3954; Oligocene; Rott, Rheinland, Germany.

Figites ? spiniger

STATZ, 1938d:89, pl. 10, fig. 17.

Holotype 3955; Oligocene; Rott, Rheinland, Germany.

Family HELORIDAE

Helorus festivus

STATZ, 1938d:102, pl. 13, fig. 38.

Holotype 3956; Oligocene; Rott, Rheinland, Germany.

Family ICHNEUMONIDAE

"Compoplex" parvulus

STATZ, 1938d:79, pl. 7, fig. 3.

Holotype 3957; Oligocene; Rott, Rheinland, Germany.

Cryptus ? morleyi (Meunier, 1923)

STATZ, 1936b as pl. 3, fig. 9.

Figured specimen 3958 (MISSING); Oligocene; Rott, Rheinland, Germany.

Hemiteles hirsuta

STATZ, 1936b:270, pl. 5, fig. 13.

Holotype 3959; Oligocene; Rott, Rheinland, Germany.

Microcryptus terebrator

STATZ, 1936b:269, pl. 4, fig. 11.

Holotype 3960; Oligocene; Rott, Rheinland, Germany.

Orthopelma curvibialis

STATZ, 1936b:272, pl. 6, fig. 17.

Holotype 3961; Oligocene; Rott, Rheinland, Germany.

Phygadeuon crassicornis

STATZ, 1936b:269.

Holotype 3962; Oligocene; Rott, Rheinland, Germany.

NOTE: The figured (pl. 4, fig. 12) counterplate is in the Kastenholz collection.

Pimpla cyclostigmata

STATZ, 1936b:270, pl. 5, fig. 14.

Holotype 3963; Oligocene; Rott, Rheinland, Germany.

Polysphincta statzi (Meunier, 1923)

STATZ, 1936b as pl. 5, fig. 15.

Figured specimen 3964; Oligocene; Rott, Rheinland, Germany.

Protarchus antiquus

STATZ, 1936b:273, pl. 6, fig. 18.

Holotype 3965; Oligocene; Rott, Rheinland, Germany.

Stenomacrus obliquus

STATZ, 1936b:273, pl. 6, fig. 19.

Holotype 3966; Oligocene; Rott, Rheinland, Germany.

Family MEGACHILIDAE

Anthidium mortuum (Meunier, 1920a)

STATZ, 1936b as pl. 13, fig. 38.

Figured specimen 3967 (MISSING); Oligocene; Rott, Rheinland, Germany.

Family PLATYGASTERIDAE

Platygasterites femoralis

STATZ, 1938d:106, pl. 14, fig. 43.

Holotype 3968; Oligocene; Rott, Rheinland, Germany.

Platygasterites spinosa

STATZ, 1938d:106, pl. 14, fig. 44.

Holotype 3969; Oligocene; Rott, Rheinland, Germany.

Family PROCTOTRUYPIDAE

Psilomma pulchellus

STATZ, 1938d:104, pl. 13, fig. 40.

2 syntypes 3970 (pl. 13, fig. 40); 3971 (unfigured); Oligocene; Rott, Rheinland, Germany.

NOTE: There is an additional unfigured syntype in the Kastenholz collection.

Family PSAMMOCHARIDAE

Priocnemis aertsii

STATZ, 1936b:283, pl. 12, fig. 35.

Holotype 3972; Oligocene; Rott, Rheinland, Germany.

Priocnemis wettleri

STATZ, 1938d:108, pl. 14, fig. 47.

Holotype 3973; Oligocene; Rott, Rheinland, Germany.

Psammochares depressa

STATZ, 1936b:283, pl. 12, fig. 34.

Holotype 3974; Oligocene; Rott, Rheinland, Germany.

Family PTEROMALIDAE

"Pteromalus" abdominalis

STATZ, 1938d:95, pl. 11, fig. 25.

Holotype 3975; Oligocene; Rott, Rheinland, Germany.

"Pteromalus" aerusus

STATZ, 1938d:98, pl. 12, fig. 30.

Holotype 3976; Oligocene; Rott, Rheinland, Germany.

"Pteromalus" atomus

STATZ, 1938d:100, pl. 12, fig. 33.

Holotype 3977; Oligocene; Rott, Rheinland, Germany.

"Pteromalus" atra

STATZ, 1938d:97, pl. 12, fig. 28.

Holotype 3978; Oligocene; Rott, Rheinland, Germany.

"Pteromalus" clavicornis

STATZ, 1938d:94, pl. 11, fig. 24.

Holotype 3979; Oligocene; Rott, Rheinland, Germany.

"Pteromalus" crassicapitatus

STATZ, 1938d:94, pl. 11, fig. 23.

Holotype 3980; Oligocene; Rott, Rheinland, Germany.

"Pteromalus" defossus

STATZ, 1938d:92, pl. 10, fig. 21.

Holotype 3981; Oligocene; Rott, Rheinland, Germany.

"Pteromalus" hirtipes

STATZ, 1938d:96, pl. 11, fig. 27.

Holotype 3982; Oligocene; Rott, Rheinland, Germany.

"Pteromalus" latipennatus

STATZ, 1938d:93, pl. 11, fig. 22.

Holotype 3983; Oligocene; Rott, Rheinland, Germany.

"Pteromalus" longicornis

STATZ, 1938d:99, pl. 12, fig. 32.

Holotype 3984; Oligocene; Rott, Rheinland, Germany.

"Pteromalus" pulchellus

STATZ, 1938d:91, pl. 10, fig. 20.

3 syntypes 3985, (pl. 10, fig. 20); 3986-3987 (unfigured); Oligocene; Rott, Rheinland, Germany.

"Pteromalus" pygmaeolus

STATZ, 1938d:100, pl. 12, fig. 34.

Holotype 3988; Oligocene; Rott, Rheinland, Germany.

"Pteromalus" rectispinus

STATZ, 1938d:99, pl. 12, fig. 31.

Holotype 3989; Oligocene; Rott, Rheinland, Germany.

"Pteromalus" rottensis

STATZ, 1938d:96, pl. 11, fig. 26.

7 syntypes 3990 (pl. 11, fig. 26); 3991-3996 (unfigured); Oligocene; Rott, Rheinland, Germany.

"Pteromalus" venustus

STATZ, 1938d:98, pl. 12, fig. 29.

Holotype 3997; Oligocene; Rott, Rheinland, Germany.

Family SCELIONIDAE

Scelionites capitatus

STATZ, 1938d:107, pl. 14, fig. 45.

Holotype 3998; Oligocene; Rott, Rheinland, Germany.

Family SPHECIDAE

Nysson rottensis

MEUNIER, 1915:212, pl. 22, fig. 1.

Holotype 4327; Oligocene; Rott, Rheinland, Germany.

Sphex obscura

STATZ, 1936b:284, pl. 12, fig. 36.

Holotype 3999; Oligocene; Rott, Rheinland, Germany.

Family TENTHREDINIDAE

Holocampa enslini

STATZ, 1936b:266, pl. 3, fig. 7.

Holotype 4000; Oligocene; Rott, Rheinland, Germany.

Leucempria oligocaenica (Meunier, 1923)

STATZ, 1936b as pl. 3, fig. 8.

Figured specimen 4001 (MISSING); Oligocene; Rott, Rheinland, Germany.

Tenthredo gracilis

STATZ, 1936b:266, pl. 2, fig. 6.

Holotype 4023, Oligocene; Rott, Rheinland, Germany.

Family TRIGONALIDAE

"Trigonalys" bischoffi

STATZ, 1938d:77, pl. 6; pl. 7, fig. 1.

Holotype 4002; Oligocene; Rott, Rheinland, Germany.

Family VESPIDAE

Polistes signata

STATZ, 1936b:282, pl. 11, fig. 33.

Holotype 4003; Oligocene; Rott, Rheinland, Germany.

Vespa bilineata

STATZ, 1936b:281, pl. 10, fig. 31.

4 syntypes 4004 (pl. 10, fig. 31); 4005-4007 (unfigured); Oligocene; Rott, Rheinland, Germany.

Vespa cordifera

STATZ, 1936b:280, pl. 10, fig. 30.

Holotype 4008; Oligocene; Rott, Rheinland, Germany.

Vespa nigra

STATZ, 1936b:282, pl. 11, fig. 32.

Holotype 4009; Oligocene; Rott, Rheinland, Germany.

Family XYELIDAE

Pleroneura graciosa (Meunier, 1920a)

STATZ, 1936b as pl. 1, fig. 1.

Figured specimen 4010; Oligocene; Rott, Rheinland, Germany.

Xyela angustipennis

STATZ, 1936b:264, pl. 1, fig. 3.

Holotype 4011 (pl. 1, fig. 3); 3 paratypes 4012-4014 (unfigured); Oligocene; Rott, Rheinland, Germany.

Xyela latipennis

STATZ, 1936b:263, pl. 1, fig. 2.

Holotype 4015 (pl. 1, fig. 2); 4 paratypes 4016-4019 (unfigured); Oligocene; Rott, Rheinland, Germany.

Xyela magna

STATZ, 1936b:264, pl. 2, fig. 4.

Holotype 4020; Oligocene; Rott, Rheinland, Germany.

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